



**NATURAL FREQUENCIES AND MODE  
SHAPES OF A NONLINEAR, UNIFORM  
CANTILEVERED BEAM**

**THESIS**

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AFIT/GAE/ENY/06-S06

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AFIT/GAE/ENY/06-S06

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THESIS

Presented to the Faculty  
Department of Aeronautics and Astronautics  
Graduate School of Engineering and Management  
Air Force Institute of Technology  
Air University  
Air Education and Training Command  
In Partial Fulfillment of the Requirements for the  
Degree of Master of Science in Aeronautical Engineering

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September 2006

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## Abstract

A series of experiments in 1975, referred to as the Princeton Beam Experiments, were performed to measure natural frequencies and create a nonlinear elastic deformation model to improve helicopter main beam designs. These experiments used a uniform, homogeneous 7075 aluminum beam and have been referenced as a baseline for the past thirty years to validate computer models and theories in an effort to build beams capable of withstanding aero elastic, static, and dynamic loading.

The purpose of this study is to measure the dynamic nonlinear bending and torsion response of a cantilever beam. The natural frequencies are measured in the flatwise and edgewise directions at different static root pitch angles with varying levels of tip weights. The measured natural frequencies were compared to linear equations of motion, a nonlinear computer model and previous experiments to verify the nonlinear effects of root pitch angle and tip weights.

The experiment produced promising results in that the first mode in the edgewise and flatwise directions were within the error bands of the Princeton Beam Experiment for all weights and that the linear model matched the experimental case with no tip weights. Further experimentation is needed in order to properly calculate the edgewise frequencies and estimate mode shapes.

AFIT/GAE/ENY/06-S06

To The Instructors Who Have Inspired Me To Get This Far.

## **Acknowledgments**

I like to express my appreciation to Dr. Kunz (advisor), Andy Cottle (Intern) and my friends and colleagues. Without their help and encouragement I would not have been able to finish this project.

Daniel J. Marquez-Chisolm

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## **List of Symbols**

$d_A$  = distance from A section mass center to weight mass center (in)

$d_B$  = distance from B section mass center to weight mass center (in)

$d_S$  = distance from solid section mass center to weight mass center (in)

$I_{xx}$  = moment of inertia about the x-axis (lb-in<sup>2</sup>)

$I_{yy}$  = moment of inertia about the y-axis (lb-in<sup>2</sup>)

$I_{zz}$  = moment of inertia about the z-axis (lb-in<sup>2</sup>)

$L_A$  = length A section (in)

$L_B$  = length B section (in)

$L_S$  = length solid section (in)

$M_A$  = mass of A section (lb)

$M_B$  = mass of B section (lb)

$M_S$  = mass of solid section (lb)

$R_{iA}$  = inner radius of A section (in)

$R_{iB}$  = inner radius of B section (in)

$R_{iS}$  = inner radius of solid section (in)

$R_o$  = outer radius (in)

Hz = Hertz

RCAS = Rotorcraft Comprehensive Analysis System

NATURAL FREQUENCIES AND MODE SHAPES OF A NONLINEAR, UNIFORM  
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## 1. Introduction

### 1.1 Princeton Beam Experiment

The Princeton Beam Experiments are a pair of tests performed by Dowell and Traybar in 1975 [1]. These tests have been a baseline for nonlinear effects on a homogeneous rotor blade with varying pitch angle and tip load. The Princeton Beam Experiment measured the first natural frequency and nonlinear deformation of a beam undergoing flap, lag and twist. The tests were completed on three different beams made of Aluminum 7075. The results of this test have been used to validate analytical models even to this day. Due to the rudimentary technology used in 1975 the measurement technique was inaccurate. Some of the inaccuracies are caused by the general lack of precision of the instruments used and the instrumentation having to be placed on the beam itself. Current technology allows the opportunity for more precise contact-free measurements of all displacement and frequency measurements. These contact-free instruments will enable determination of a more accurate baseline for rotor designers to compare with their analytical results.

### 1.2 Purpose

The purpose of this experiment is to expand upon the Princeton Beam Experiments completed by Dowell and Traybar. In Dowell and Traybar's experiment, they measured displacements and the first natural frequency in both the flatwise and edgewise directions. The experiment for this thesis will seek to measure higher order

frequencies and estimate the mode shapes at these frequencies using a 3-D laser vibrometer.

The procedures used in the investigation for this thesis are documented accurately so that future validation can be re-accomplished. The natural frequencies measured will be validated with the Princeton Beam Experiment data, linear equations of motion, and a nonlinear finite element model in Nastran.

## 2. Literature Review

### 2.1 The Princeton Beam Experiments

In 1975, Dowell and Traybar completed a series of tests called the Princeton Beam Experiments which was funded by the U.S. Army Air Mobility Research and Development Laboratory, Ames Research Center. The Princeton Beam Experiment investigated the dynamic and static responses of a rotor blade experiencing flap, lag and twist deformations at pitch angles ranging from  $0^\circ$  to  $180^\circ$ . The investigation was meant to “support the validity [of]...nonlinear structural theory for rotor blade applications” [1:ii]. Figure 1 shows the axis and angular systems used by Dowell and Traybar.

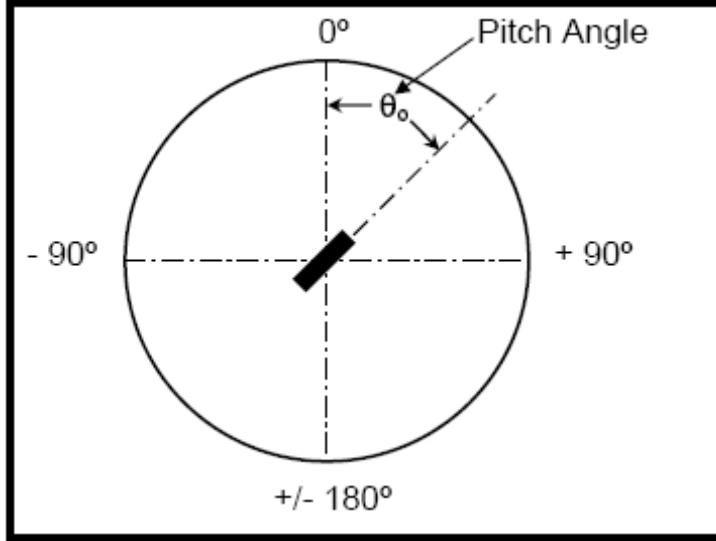


Figure 1: Axis and Angular System of Experiment [11]

The pitch angle is determined from the root of the beam since the tip angle will change when tip weights are added.

The Princeton Beam Experiment consisted of two components: static tests and dynamic tests. Both components used a homogeneous cantilever beam that had different tip weights applied to the free end of the beam. The beam was then tested at varying root pitch angles. The Princeton Beam Experiment used three different beams made from

7075-T6 aluminum. For the static component, the beam was loaded with the various tip weights and for the twenty inch beam the displacement was measured every five inches from the root, as shown in Figure 2. A beam made of 7075-T6 aluminum bending will not be completely straight due to the processing of the aluminum. Looking at Dowell and Traybar's data, the natural bending was dealt with by measuring the displacements relative to the unloaded static state. From the literature, the method Dowell and Traybar used to measure displacements was to project a light over the beam to cast a shadow on graphing paper and then use a ruler to measure the displacement.

The dynamic component tests were an effort to determine the nonlinear effects of a tip weight and varying root pitch angles would have on the natural frequency of the beam. The dynamic portion of the Princeton Beam Experiment was completed using two beams. The beam of interest for this thesis investigation is the beam with a length of 20". Figure 2 shows a side view of the beam.

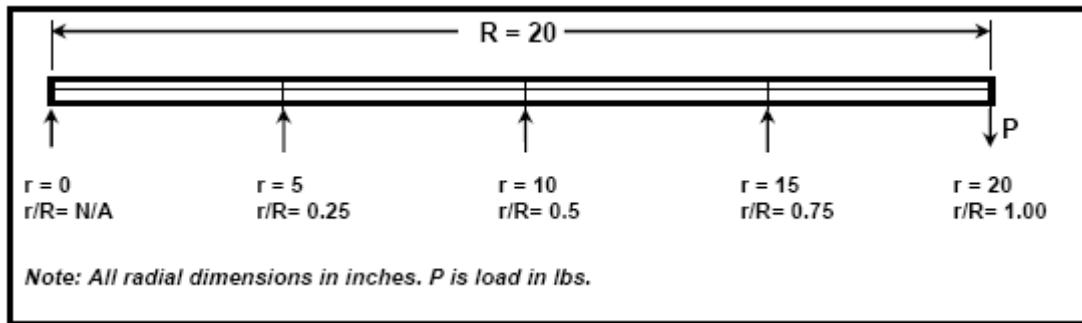


Figure 2: Side view of Beam #2 [11]

The first mode was excited by using a finger to flick the beam in either the flatwise or edgewise direction. Using strain gauges mounted to the tip root, frequency data was recorded. The Princeton Beam Experiments, even with rudimentary technology have been accepted by the engineering community as a baseline for the nonlinear response of a

beam. In 1975, the available technology was not capable of making more accurate measurements [1].

## **2.2 Princeton Beam References**

The results from the Princeton Beam Experiments have been used since the test was completed in 1975 as a baseline for nonlinear effects on a beam. The 30 year history consists of many computer programs and theories that have been compared to the Princeton Beam Experiments for validation. Hodges used the data collected from these experiments as recently as 2005 [4].

### **2.2.1 Rotorcraft Dynamics Division (1987)**

The U.S. Army Aeroflightdynamics Directorate Rotorcraft Dynamics Division developed the General Rotorcraft Aeromechanical Stability Program (GRASP) [5]. Those involved in the study were Hodges, Hopkins, Kunz and Hinnant. The GRASP was designed to analyze beam aero elastic, static and dynamic deflections with and without loads. The output from the GRASP was compared to the Princeton Beam Experiments for validation and had results which were very similar to the Princeton Beam Experiments with an average error of 0.5%.

### **2.2.2 Hopkins and Ormiston (2003)**

Hopkins and Ormiston validated the beam element which was implemented in a program called Rotorcraft Comprehensive Analysis System (RCAS) [7]. The RCAS is an analytical tool to calculate rigid and flexible body kinematics. The software output was compared to the Princeton Beam Experiment results for the 20" 7075-T6 Aluminum

beam, Maryland vacuum chamber experiments and UH-60 flight test data [7]. Through these comparisons, it was found that the RCAS software adequately predicted elastic beam deformations and that the software can also be used for varying cross section and material properties.

### **2.2.3 Hodges (2005)**

Hodges tried to propose a beam theory that would be adequate for modeling composite rotor blades that could be useful and tractable [4:51]. Similar to the Princeton Beam Experiments and RCAS, Hodges was trying to produce a modern beam theory which accurately analyzed static deflection, estimating natural frequencies, mode shapes, dynamic stability and aero elastic stability under specified loads and buckling loads while recovering the 3-D stresses for a variety of geometries and material properties. Hodges never directly mentioned the comparison to the Princeton Beam data; however, his theory did include the work by Hopkins and Ormiston and the RCAS computing system which was verified with the Princeton Beam Experiments.

### **2.2.4 Laulusa**

Laulusa created a “beam-type finite element method” to evaluate static deflection and predict natural frequencies for small vibrations [9]. The results of his theoretical model and numerical code were compared with the experimental studies of Dowell, Traybar and Hodges [3]. Laulusa’s tip deflection measurements showed “very good agreement” with the numerical results except for cases with large tip deflections [9:14-17].

## 2.2.5 Whiting

Whiting completed research using the laser vibrometer setup used in this investigation to try and duplicate the Princeton Beam Experiment. Whiting's experiment was done in order to get better data and at the same time was a way to validate the experimental technique. He showed that using the laser vibrometer, with the correct error bars, the data with the Princeton Beam Experiment matched very well. This shows that the experimental technique proves to be correct and that the test is measuring the correct thing. In his research he measured the first natural frequency of the beam with different tip masses. In Figures 3 and 4, plots can be seen of the Princeton Beam Experiment first mode natural frequencies in the flap and chord directions at different angles compared to data that he collected.

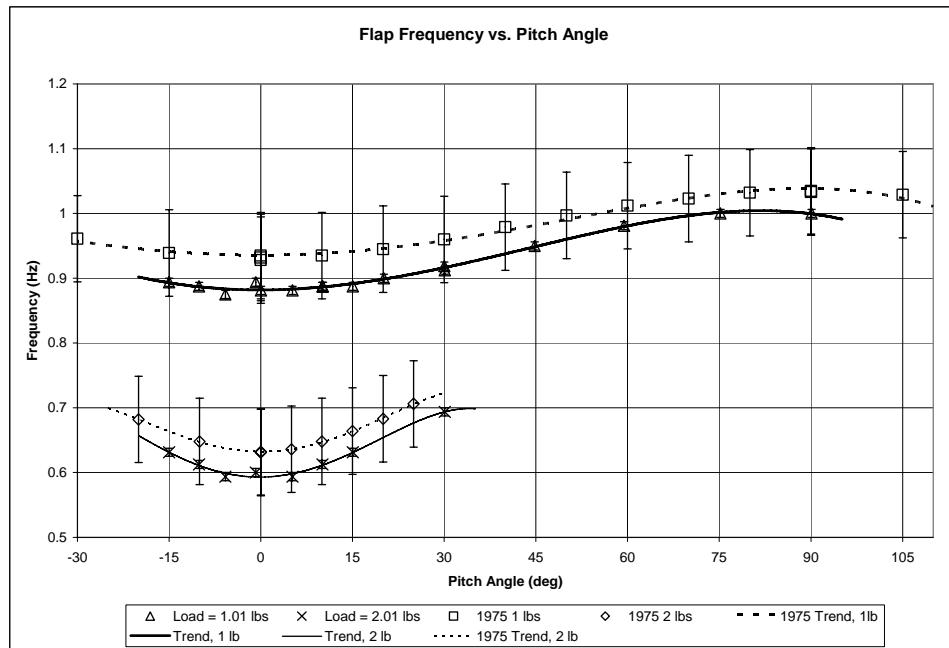


Figure 3: Flatwise Frequency vs. Pitch Angle [15]

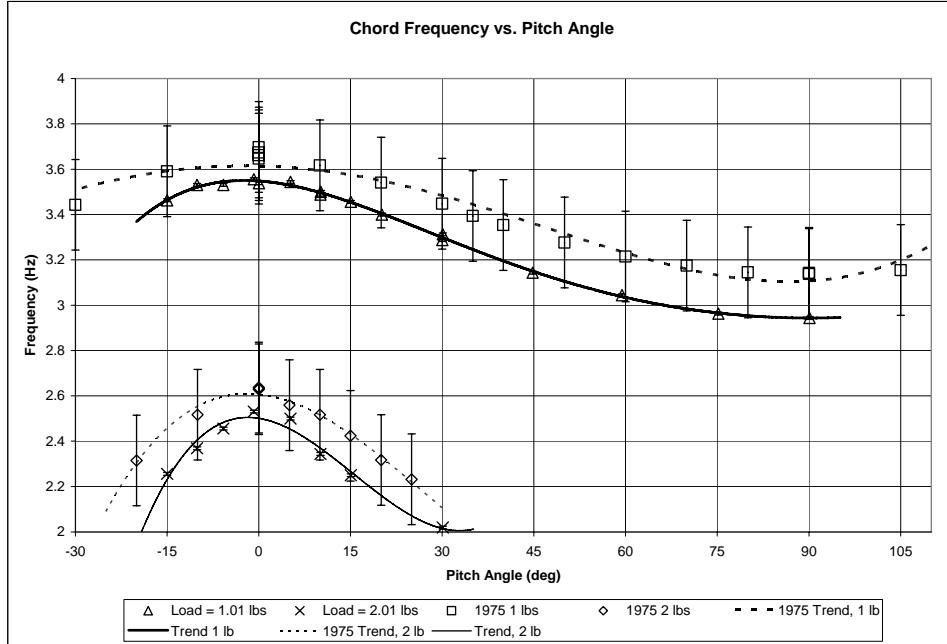


Figure 4: Edgewise Frequency vs. Pitch Angle [15]

In Whiting's research, he calculated the error bands by using the root mean squared method shown below:

$$E = \left( \frac{e_1^2 + e_2^2 + \dots + e_n^2}{n} \right)^{0.5} \quad (1)$$

Where E is the total error and  $e_i$  is the error from each source. The sources of error in this experiment come from the digitizing process, frequency resolution and instrument accuracy. The frequency resolution in the Princeton Beam Experiment was  $\pm 0.06667$  Hz in the flatwise direction, and  $\pm 0.10$  Hz in the chordwise direction.

### **3. Methodology**

The research for this thesis is designed to build upon the Princeton Beam Experiment by calculating higher order natural frequencies and estimate mode shapes of a homogeneous uniform cantilever beam. For this reason, the setup for this investigation will mimic Dowell and Traybar's experiment by using similar weights and a beam of the same material and dimensions that were used in the Princeton Beam Experiment.

#### **3.1 Experimental Components**

##### **3.1.1 Beams**

The Princeton Beam Experiment used two different beams for the dynamic portion of the test, one 20" in length and the other 30" in length made from a sheet of 7075-T6 aluminum with a thickness of 1/8". The beam of interest for the investigation in this thesis is the beam with a length of 20". The beam has a manufactured length of 24" (20" of cantilever), is 1/2" wide and is 1/8" thick. Due to the machining procedure, the beam was visibly warped. Figure 5 shows initial deflection of the beam which was measured by McGraw [11]. The center of the tip was tapped for a 1/16" diameter screw to keep the various tip weights attached, which are described in the next section.

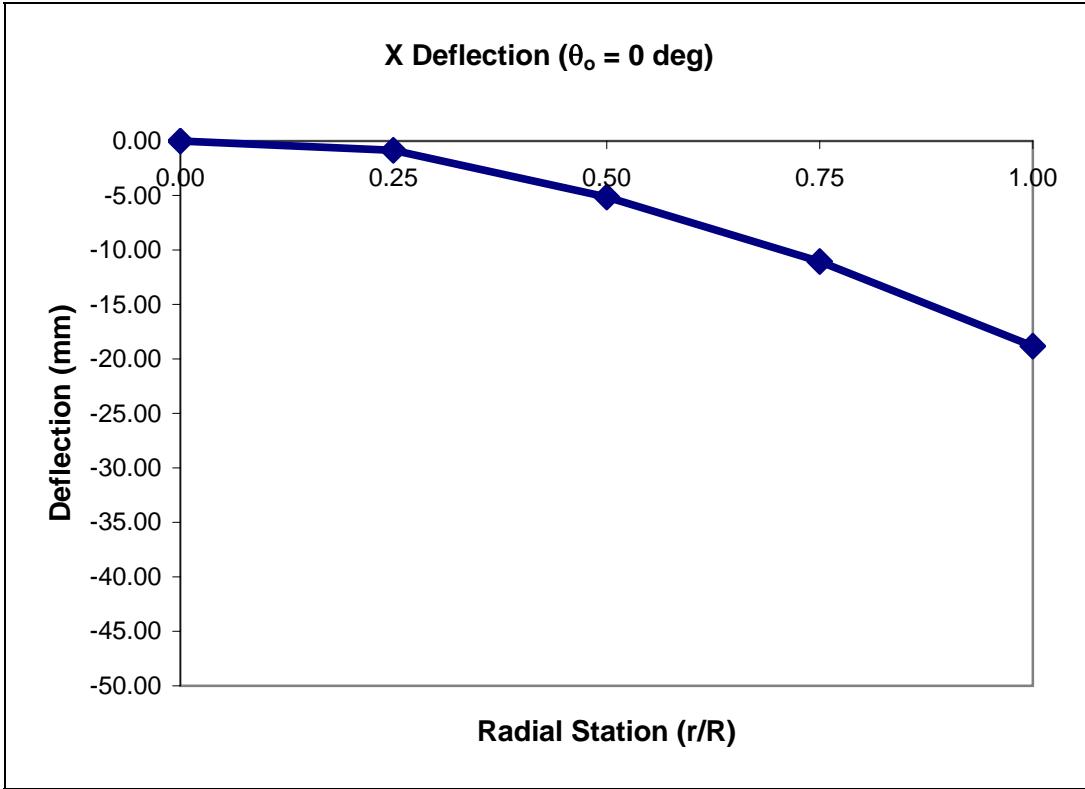


Figure 5: Initial Tip Deflection Due to Machining [11]

### 3.1.2 Tip Weights

Four cylindrical steel weights were made varying from one to four pounds in one pound increments. The weights were cut from three separate solid steel rods with diameters of 2", 3.5" and 4". Figure 6 shows that each tip weight had a .516" bore in the center with a 1/4" solid section in the middle that had a 1/16" hole for the fastening screw. The weights were designed so that when the weight was attached to the beam, the center of mass of the weight would be located at the tip of the beam as seen in Figure 6.

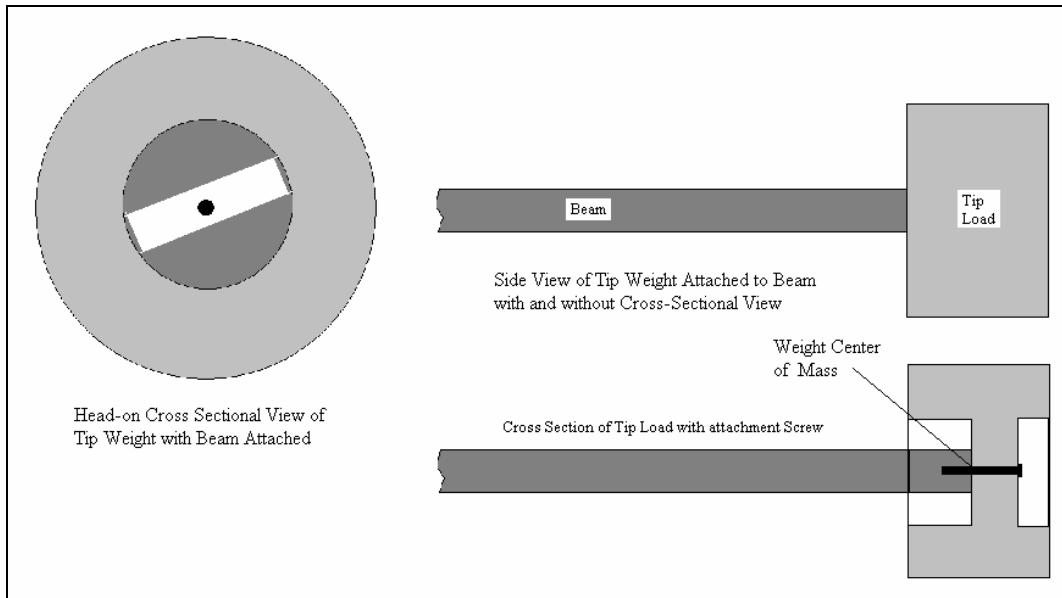


Figure 6: Weight Cross Sections [15]

The dimensions of the beams used are show in Table 1 and can be seen in Figure 7. Bore A refers to the side of the weight that the beam is attached, and Bore B refers to the free end where the screw is inserted.

Table 1: Tip Weight Dimensions [16]

Designed Weight (lb)	Diameter (in)	Total Length (in)	Bore A Length (in)	Bore B Length (in)	Actual Weight (lb)
1	2	1.158	0.588	0.320	1.01
2	3.5	0.727	0.366	0.111	2.01
3	3.5	1.094	0.550	0.294	3.02
4	4	1.112	0.733	0.129	4.01

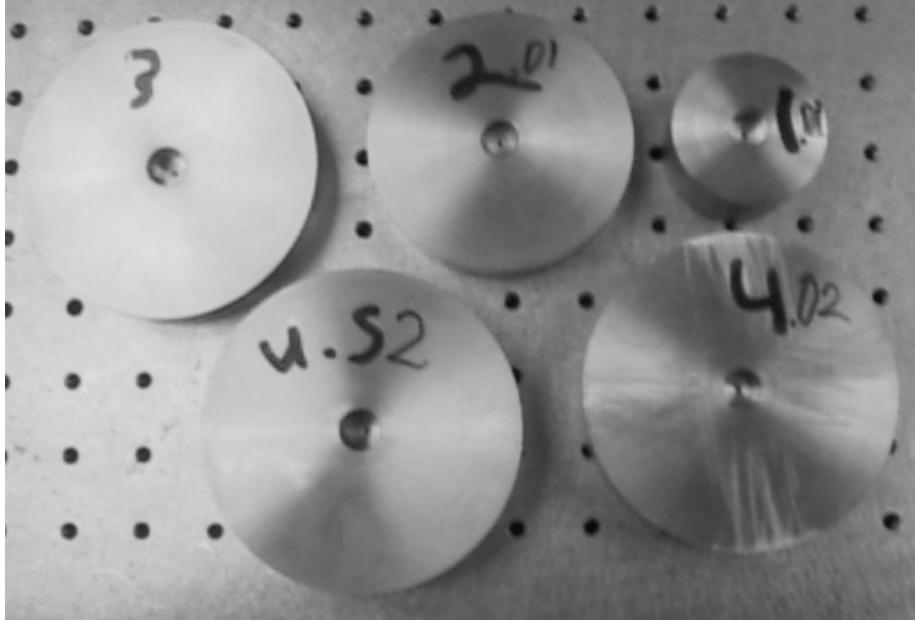


Figure 7: Tip Weights [15]

The moments of inertia for all of the tip weights were calculated using the following equations:

$$I_{xx} = \frac{\pi \rho L_{\text{solid}} R_o^4}{2} + \frac{\pi \rho L_A (R_o^4 - R_{iA}^4)}{2} + \frac{\pi \rho L_B (R_o^4 - R_{iB}^4)}{2} \quad (1)$$

$$I_{yy} = \frac{M_{\text{solid}} (3R_o^2 + L_{\text{solid}}^2)}{12} + M_{\text{solid}} d_{\text{solid}}^2 + \frac{M_A (3R_o^2 + 3R_{iA}^2 + L_A^2)}{12} + M_A d_A^2 + \frac{M_B (3R_o^2 + 3R_{iB}^2 + L_B^2)}{12} + M_B d_B^2 \quad (2)$$

Where  $R_o$ ,  $R_{iA}$ ,  $R_{iB}$ ,  $L_{\text{solid}}$ ,  $L_A$ , and  $L_B$  can be seen in Figure 8 and the values for the moments of inertia can be seen in Table 2.

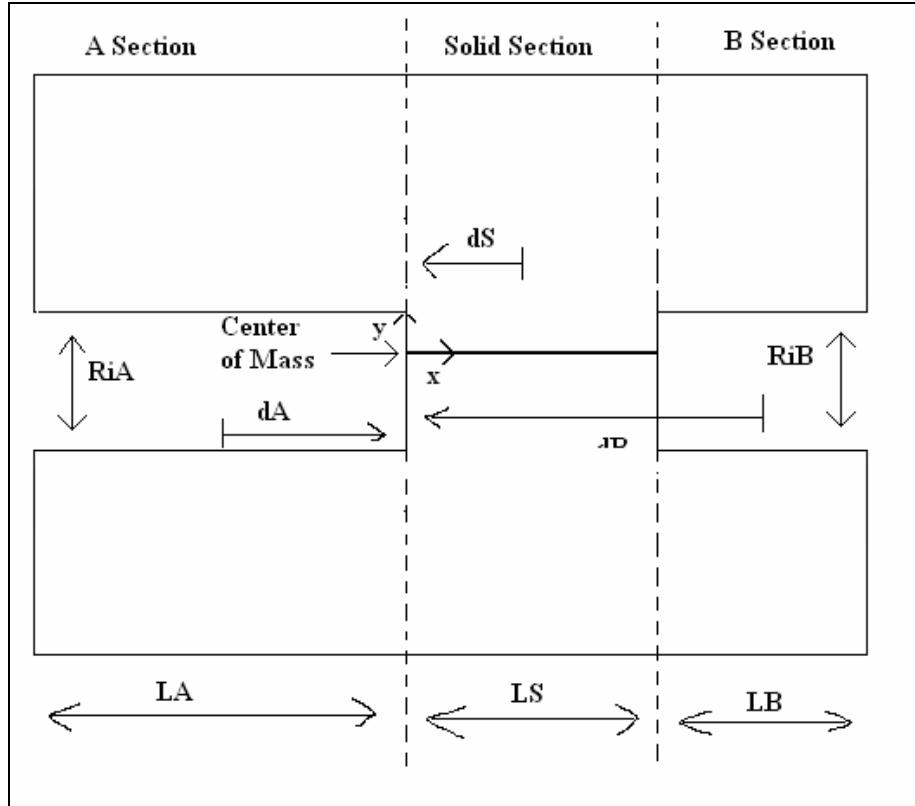


Figure 8: Moment of Inertia Equation Variables [15]

Table 2: Moment of Inertia Calculations

Weight (lb) Measured	$I_{xx}$ (lb-in $^2$ ) Calculated	$I_{yy}$ (lb-in $^2$ ) Calculated
1.01	0.531	0.375
2.01	3.122	1.646
3.02	4.702	2.643
4.01	8.124	4.603

### 3.1.3 Swiveling Hub

Figure 9 shows the clamp used to ensure that the beam had a fixed boundary condition at the root. The hub that was made clamps four inches of the 24" beam. This allows the beam to have a cantilever end and have the desired 20" length. Figure 10

displays some of the orientations of the root pitch angle used in the experiment for this thesis.

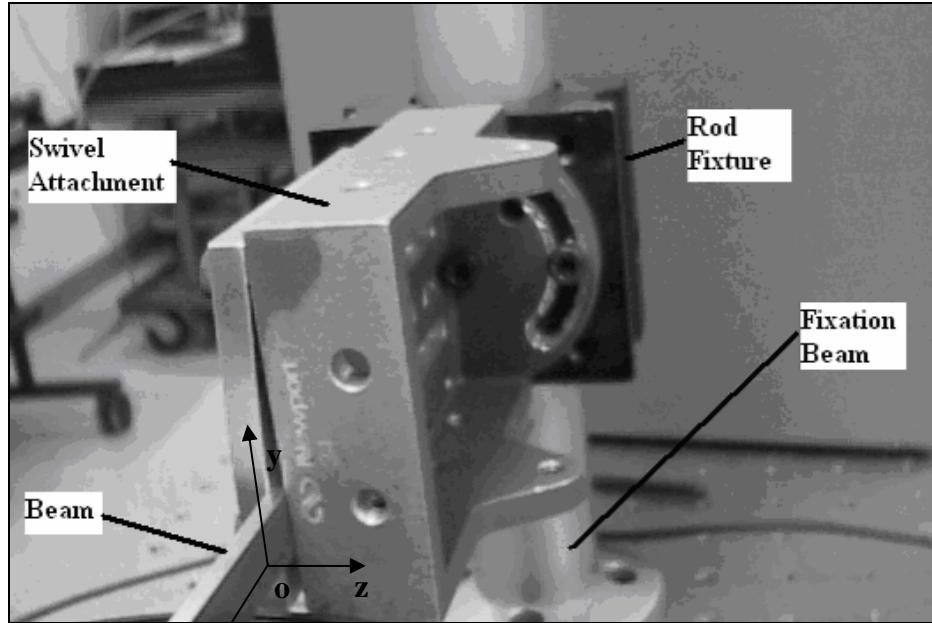


Figure 9: Swiveling Hub Attachment [11]

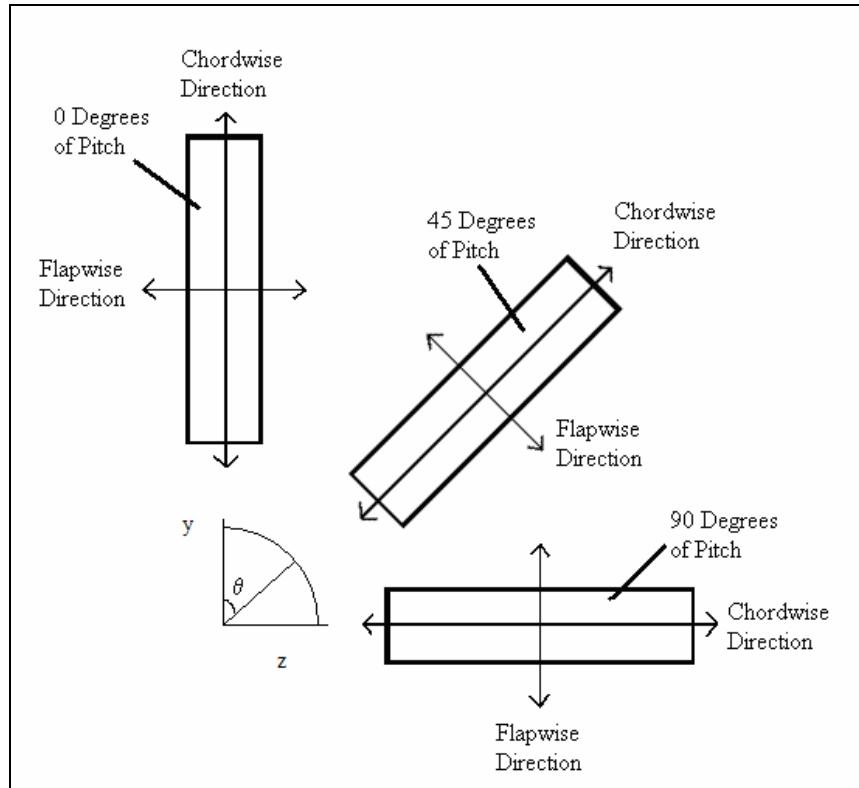


Figure 10: Directional Orientation [11]

### **3.1.4 Inclinometer**

The inclinometer is used to determine that the beam is placed at the correct angle. The SPI Protracto Level II Inclinometer has a digital readout and is accurate to a tenth of a degree. The inclinometer has a maximum range of  $50^\circ$  but the investigation only required testing up to  $45^\circ$ . The inclinometer is attached to the clamp that held the beam during the experiment so that an accurate reading could be taken for each test.

### **3.1.5 Excitation Force**

An Atlas Sound 60 watt, 8 ohm speaker is used to excite the beam to measure the natural frequencies. The excitation signal used was a periodic chirp from 10 Hz to 2000 Hz for the test. A periodic chirp is “designed to excite all FFT lines of the measured spectrum” [13]. The speaker is shown in Figure 11.

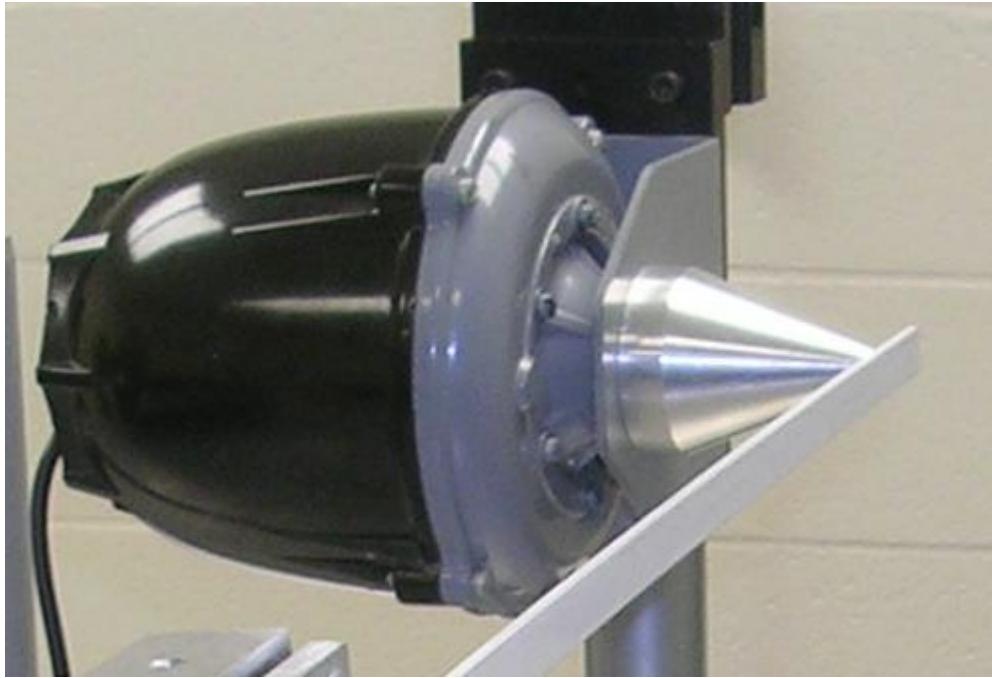


Figure 11: Excitation Force

### 3.1.6 Laser Vibrometer

The Polytec Scanning Vibrometer PSV 400-3D is used to measure the natural frequencies and estimate the mode shapes. The laser vibrometer can be used as either a 1-D or 3-D system. This investigation used the 3-D method.

The 3-D laser vibrometer used Polytec software version 8.3 to analyze the data. Once the beam was in place, at the correct angle and with the right tip weight, there were many steps needed before the laser vibrometer was ready to do the testing. There are three lasers that comprise the set-up. Figure 12 shows the three laser setup.



Figure 12: 3-D Laser Vibrometer Setup

The three lasers are referred to as the left, right and top head. The top head (middle laser) has a camera and a scanning laser which measures distances. The laser vibrometer measures velocities at points selected during a grid making stage which will be discussed in the next section. The velocities measured by the lasers were sent to the Polytec software which applied a Fast Fourier Transform (FFT) to find the frequencies. From the FFT the natural frequencies could be found for the range of frequencies excited by the excitation force.

## 3.2 Experiment

### 3.2.1 Beam Preparation

In Whiting's tests [15], measurements could not be taken at large root pitch angles due to the laser beam being reflected off the beam and not back to the laser head. To help alleviate this problem the beam was sprayed with a lightweight white paint. The paint used is Magnaflux Spotcheck Developer SKD-S2. The paint increases the amount of the laser reflected back to the source during testing. A mark four inches from the base of the beam was made so that the portion of the beam that was needed to be clamped in the swiveling hub was easy to determine.

### 3.2.2 Procedure

The first step in the setup of the experiment was to make sure that the fixation beams were secure to the optical table. The fixation beam held the swiveling hub and beam was fastened to the table by use of Newport Research Corporation Model 100 Magnetic Base. The fixation beam holding the speaker was locked using four bolts that were 1/4" in diameter. The bolts were required for the speaker because the magnet was not strong enough to counter the large moment arm. The swiveling hub was attached to the fixation beam which was secured by the magnet. The swiveling hub was fastened around the 24" beam, with four inches of the beam fastened inside the hub. The bolt holding the swiveling hub was loosened and adjusted while observing the reading on the inclinometer until the beam was placed at the correct root pitch angle. Once the correct angle was found and the bolt was tightened. Figure 13 shows the final configuration including the excitation force.



Figure 13: Swiveling Hub Attachment

After the beam is set up, the lasers must be aligned. The top laser's camera displays the specimen on a computer screen. The computer is able to dictate what the laser does, but each test requires an alignment between the computer and the lasers. The alignment between the computer and the lasers is a two step process which is called the 1-D and 3-D alignment.

The first step in the alignment process is the 1-D alignment. The 1-D alignment is done by moving the laser beam from the top head from point to point on the specimen. This associates a distance per pixel so that the computer knows how much to move the

laser beam when you move the laser with the mouse on the computer. The next step, which is the most time consuming, is to complete the 3-D alignment. This requires all three lasers to be located at the same point on the specimen. When completed, all three lasers will move to the same point on the specimen. The first three points chosen during this step are considered the origin, a point on the x-axis and a point in the positive x-y plane. Up to four more points can be aligned on the specimen to ensure all three lasers are aligned throughout the entire specimen. After the 3-D alignment is complete, a grid must be made over the specimen for testing. This grid determines each test point on the beam. The grid is made using the computer by overlaying a mesh on top of the beam. When the density of the grid is determined, the scanning laser from the top laser scans all grid points on the beam to calculate the distance. A typical grid configuration can be seen in Figure 14. Once the grid is complete, testing is ready to begin.



Figure 14: Grid Points Tested During a 3 Pound Tip Weight at  $0^\circ$  Root Pitch Angle

The testing starts by setting the excitation force to a periodic chirp from 10 Hz to 2000 Hz. During the setup of the test, it was determined that each point should be tested through three cycles of the periodic chirp. Once the laser vibrometer scans every grid point for the three cycles the test is complete. The Polytec software graphs the Fast Fourier Transform. Figure 15 shows the FFT and the coherence of no tip weight at the zero root pitch case.

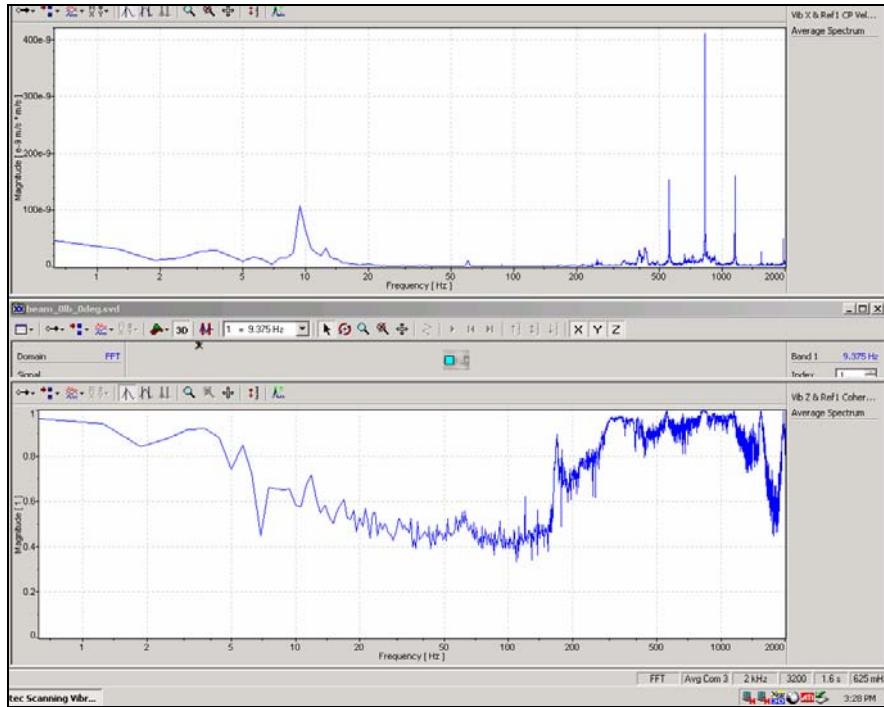


Figure 15: FFT and Coherence Plot for No Tip Weight and 0° test

The next step is to manually highlight all the peaks on the FFT and let the program calculate the frequency of the max value of each peak, respectively. By doing this, each frequency can be selected individually and the movement of the beam can be seen in a separate screen. This is useful to determine whether the frequency selected was an actual natural frequency or just noise. After examining each movement, all of the natural frequencies were recorded.

The first scan of the specimen used a periodic chirp which tested the beam through a range of frequencies which is time consuming making it impractical to have a dense grid. A different type of scan which can be performed is called a Fast Scan. The Fast Scan takes measurements of the specimen at a specific frequency [13]. Testing at one frequency allows a more densely populated grid to be tested in less time. The periodic chirp scan had about 40 scan points where the Fast Scan had about 140 scan points. The excitation frequency, positions and velocities from the Fast Scan were then exported into an ASCII file. This is the conclusion of one test at a specific root pitch angle and tip weight. The testing procedure for this investigation tested the beam at a specific root pitch angle and changed the tip weight after each test. Once the beam was tested with every weight at a specific root pitch angle, the angle was changed and the beam was tested with all the weights at the new angle. The angles and weights tested can be seen in Table 3.

Table 3: Angles and Weight Configuration of Testing

Weight	Angle						
	-45°	-30°	-15°	0°	15°	30°	45°
0	x	x	x	x	x	x	x
1	x	x	x	x	x	x	x
2	x	x	x	x	x	x	x
3		x	x	x	x	x	
4		x	x	x	x	x	

### 3.3 Linear Equations of Motion

The linear equations used to calculate the bending and torsion natural frequencies of the beam are presented by Hodges and Pierce [6:44-45]. The derived equation of motion for transverse beam displacements is:

$$a^4 \frac{\partial^4 v}{\partial x^4} + \frac{\partial^2 v}{\partial t^2} = 0 \quad (3)$$

Where:

$$a^4 = \frac{EI}{m} \quad (4)$$

The solution to this equation can be attained using a separation of variables. The solution for the time-dependent equation is:

$$Y(t) = A \sin(\omega t) + B \cos(\omega t) \quad (5)$$

Where

$$\omega = a^2 \alpha^2 \frac{EI}{m} = \alpha^2 \sqrt{\frac{EI}{m}} = (\alpha l)^2 \sqrt{\frac{EI}{ml^4}} \quad (6)$$

Assuming the solution of the spatially dependent equation takes the form of  $X(x) = \exp(\lambda x)$ , the general solution is:

$$X(x) = D_1 \sin(\alpha x) + D_2 \cos(\alpha x) + D_3 \sinh(\alpha x) + D_4 \cosh(\alpha x) \quad (7)$$

The constant  $D_i$  ( $i=1, 2, 3, 4$ ) can be evaluated using the boundary conditions at the end of the beams. For the investigation for this thesis, a cantilever boundary condition is set at the root and translational and rotational inertia boundary conditions are at the tip.

Once the constants are solved for, this is called the characteristic equation and can be seen in Appendix B [8]. The next step is to solve the characteristic equation for each

bending and torsion frequency, which is done by finding the roots of the characteristic equation. This step can be seen in Appendix B.

### **3.4 Finite Element Analysis**

The finite element analysis tool used in the investigation for this thesis is called Nastran. Nastran is a finite element analysis tool which “provides a wide range of modeling and analysis capabilities, including [...] vibration” [12]. Nastran can analyze a structure’s natural frequencies with the geometry and material properties of the structure. The geometry and material properties for the analysis was created in a program called FEMAP. FEMAP is a finite element modeling system. A geometry can be made “directly in FEMAP using powerful wireframe and solid modeling tools” [14]. In FEMAP a beam was created with the same dimensions as the beam mentioned in 3.1.1. For an accurate analysis of high order modes the number of elements (CBEAM) on the beam is important. If there are too few elements the higher order frequencies will not be calculated correctly because there will be an insufficient degrees of freedom. The beam created in FEMAP for this investigation had 1600 CBEAM elements. The CBEAM element simulates a bar defined by two grid points and it provides resistance to torsion and bending moments, it also has the ability of performing nonlinear geometric and material process [12]. The material properties used for the beam are the material properties for 7075-T6 aluminum [10]. The file created by FEMAP to be analyzed by Nastran can be seen in Appendix C.

## 4. Results and Analysis

The goal of this research is to determine the frequency response and mode shapes of nonlinear bending on a homogeneous uniform beam. To measure this effect, the natural frequencies from this investigation will be compared to those derived from linear equations and a nonlinear finite element analysis in Nastran. In this section, the graphs and figures with frequencies below 250 Hz were produced from the raw data shown in Appendix A. The speaker used to excite the beam had a minimum excitation frequency of 10 Hz, which caused problems in measuring the first natural frequency of the system. In a previous study, Whiting [15] measured the first natural frequency and estimated the corresponding mode shapes with a very similar setup.

### 4.1 Frequency Analysis

The frequencies measured during this experiment with no tip weight are predicted to match those derived from the linear equations and the finite element model. Once weight is added to the system, coupling will occur and the linear equations will no longer accurately predict the natural frequencies, however, the nonlinear results from the finite element model should still predict the natural frequencies fairly well. Table 4 and Figure 16 show the natural frequencies found for the beam with no tip mass using the linear equations, the nonlinear finite element model, and through experimentation.

During the experiment, the laser vibrometer did not measure all natural frequencies. This could have occurred for many reasons, either because of noise at 60 Hz, or the natural frequency was lower than the minimum excitation frequency of the speaker, which is the case for any frequency lower than 10 Hz. The measured

frequencies in Table 4 have been aligned to match the closest calculated frequency by looking at the mode shape and matching it to the correct calculated mode shape.

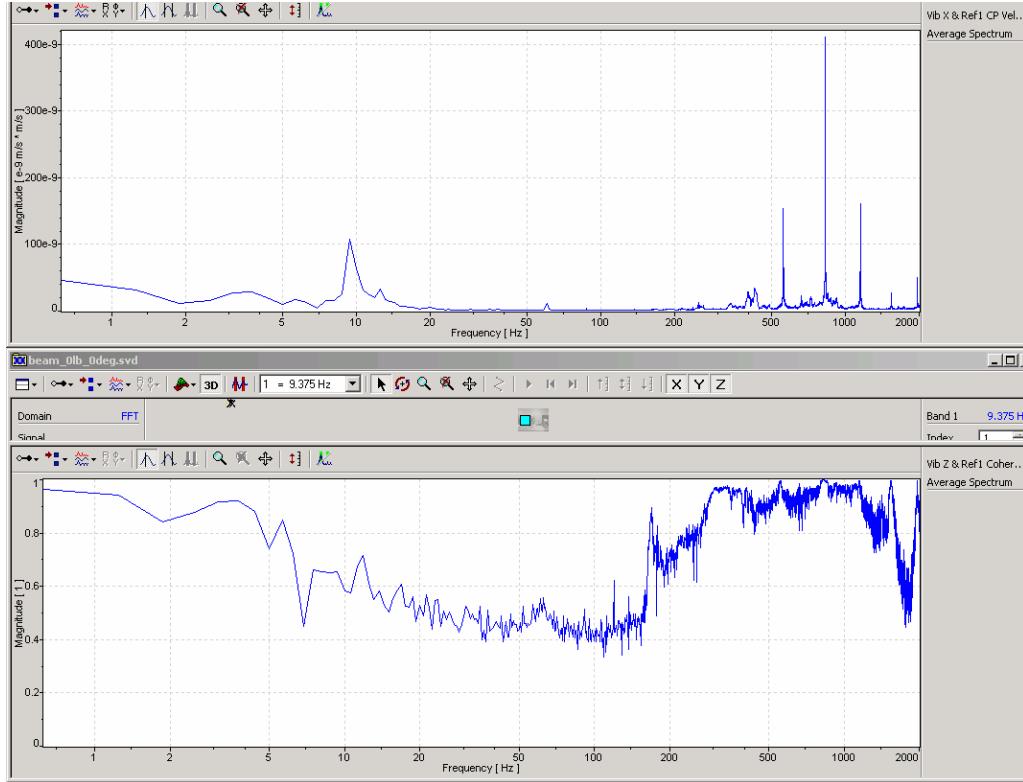


Figure 16: Coherence and FFT with no Tip Weight and at 0° Root Pitch

Table 4: Modal Frequencies No Tip Mass at 0° Root Pitch

Mode Type	Equations	Nastran	Experimental
cyc/sec			
1st Mode Flat	10.05	9.94	9.375
1st Mode Edge	40.21	40.10	
2nd Mode Flat	62.99	62.26	60
3rd Mode Flat	176.38	174.32	
2nd Mode Edge	251.97	251.16	250
4th Mode Flat	345.64	341.60	338.1
5th Mode Flat	571.37	564.68	556.3
3rd Mode Edge	705.53	703.25	
6th Mode Flat	853.53	843.54	826.3

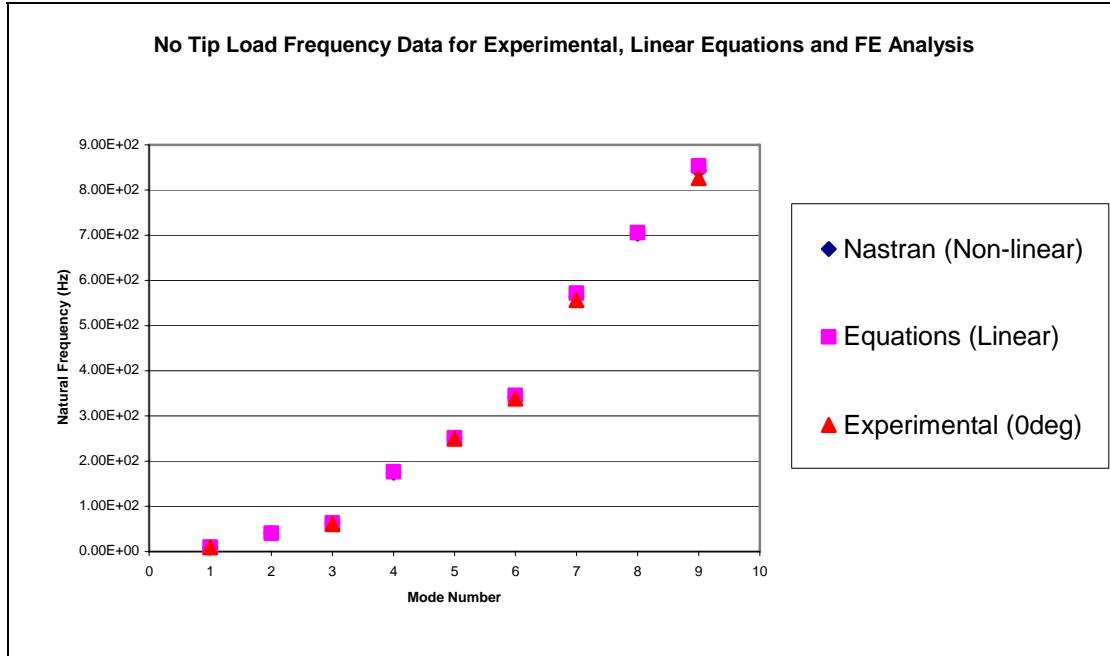


Figure 17: Frequency Comparison for Experimental and Linear Equations for No Tip Weight

Figure 17 shows that the linear equations agreed with measured natural frequencies with no tip weight with the greatest error being 4.7%. The finite element model predicted natural frequencies which also agreed with the measured natural frequencies with the greatest error being 3.6%.

In the next test, a one pound tip weight was added to the tip of the beam. Due to the system being nonlinear the linear equations did not yield accurate predictions to the natural frequencies of the beam found with a tip weight. The natural frequencies at 0° root pitch angle can be seen in Table 5 and Figure 19. The linear equations had a max error of 55.2% while the finite element analysis had a max error of only 6.9%

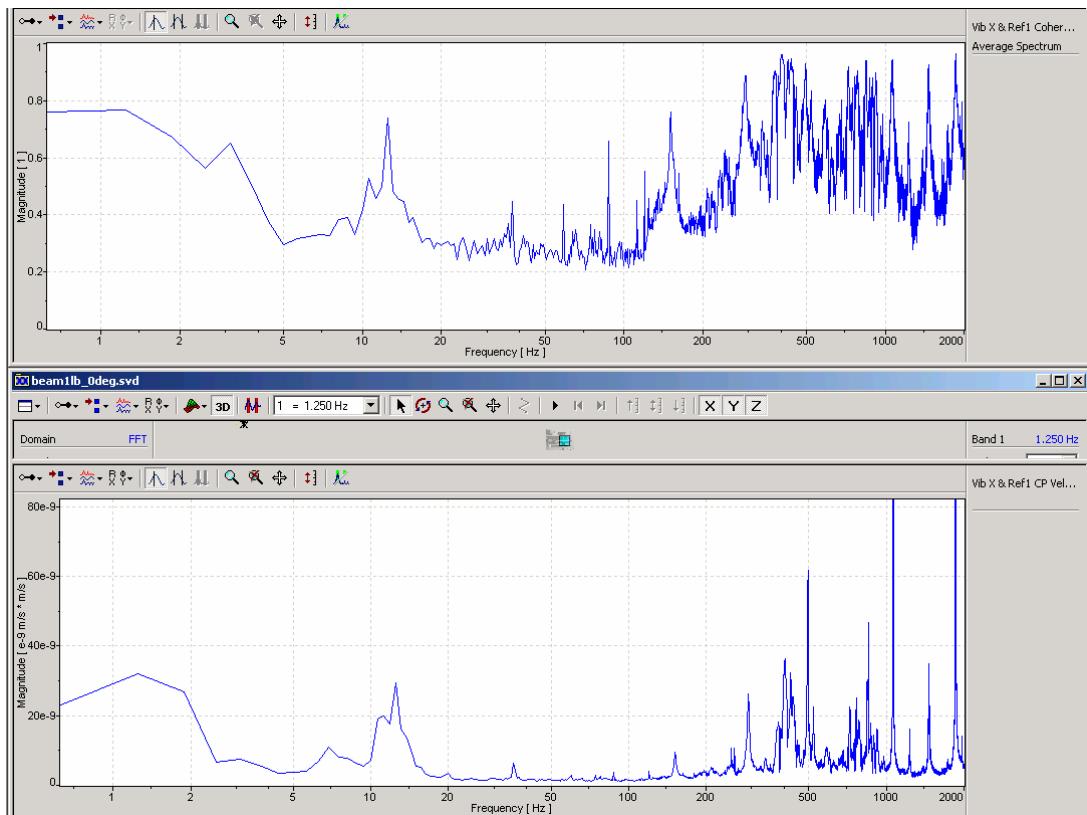


Figure 18: Coherence and FFT with One Pound Tip Weight and at  $0^\circ$  Root Pitch

Table 5: Modal Frequencies One Pound Tip Mass at  $0^\circ$  Root Pitch

Mode Type	Equations	Nastran	Experimental
			cyc/sec
1st Mode Flat	1.7309	1.72E+00	
1st Mode Edge	6.9237	6.95E+00	
2nd Mode Flat	38.9421	4.39E+01	
3rd Mode Flat	97.4754	1.42E+02	151.3
2nd Mode Edge	155.7682	1.77E+02	
4th Mode Flat	191.2654	2.95E+02	291.3
5th Mode Flat	353.134	5.04E+02	493.8
3rd Mode Edge	389.9016	5.71E+02	
6th Mode Flat	576.0466	7.69E+02	763.1

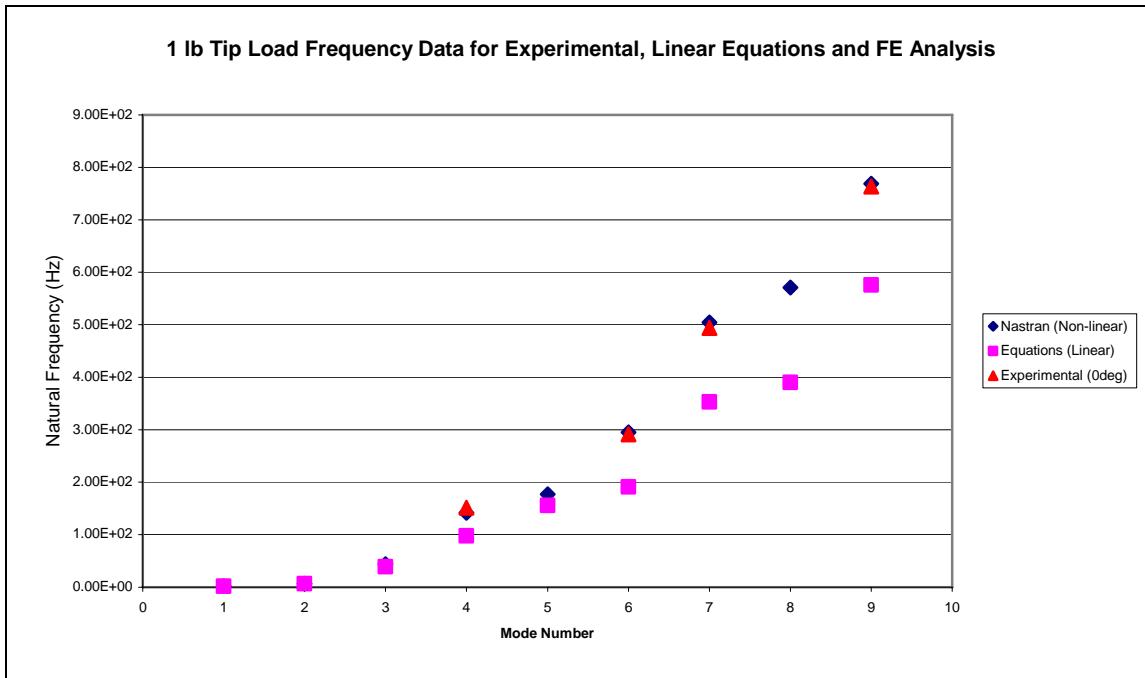


Figure 19: Frequency Comparison for Experimental and Linear Equations for a One Pound Tip Weight

Figure 19 shows the linear equations fail to predict the natural frequencies as the mode number increases due to the nonlinear effects that the linear equations do not account for.

The three pound tip weight is predicted to have the highest nonlinear effects on the natural frequency. Table 6 and Figure 21 depict the nonlinear results of the three pound tip weight compared to the linear equations.

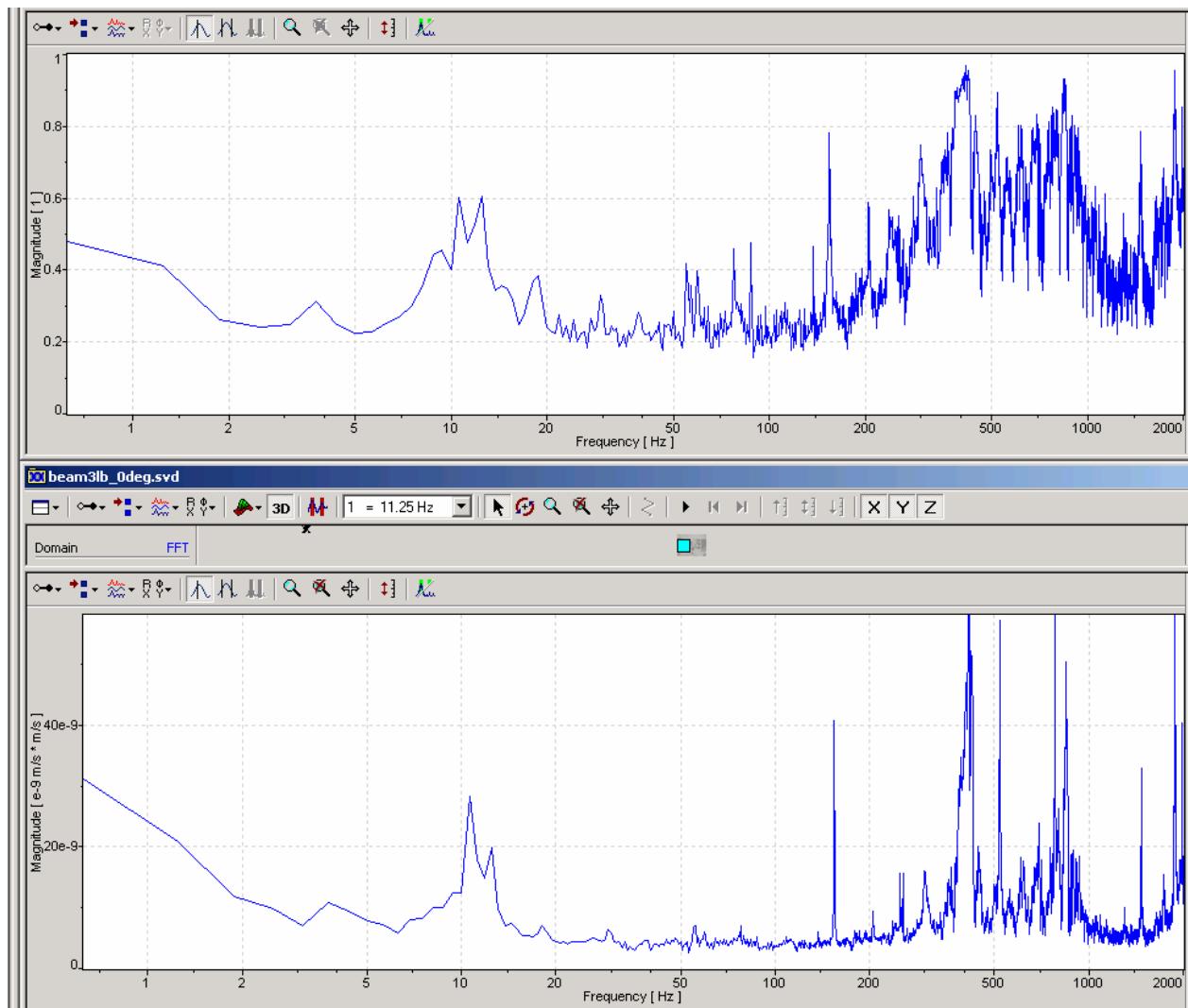


Figure 20: Coherence and FFT with Three Pound Tip Weight and at  $0^\circ$  Root Pitch

Table 6: Modal Frequencies Three Pound Tip Mass at 0° Root Pitch

Mode Type	Equations	Nastran	Experimental
cyc/sec			
1st Mode Flat	1.0072	1.00E+00	
1st Mode Edge	4.0287	4.05E+00	
2nd Mode Flat	22.7553	4.37E+01	55.63
3rd Mode Flat	69.3401	1.41E+02	154.4
2nd Mode Edge	91.0212	1.76E+02	
4th Mode Flat	178.3618	2.95E+02	299.4
5th Mode Flat	346.7946	5.04E+02	520.6
3rd Mode Edge	277.3604	5.70E+02	
6th Mode Flat	572.1567	7.69E+02	780

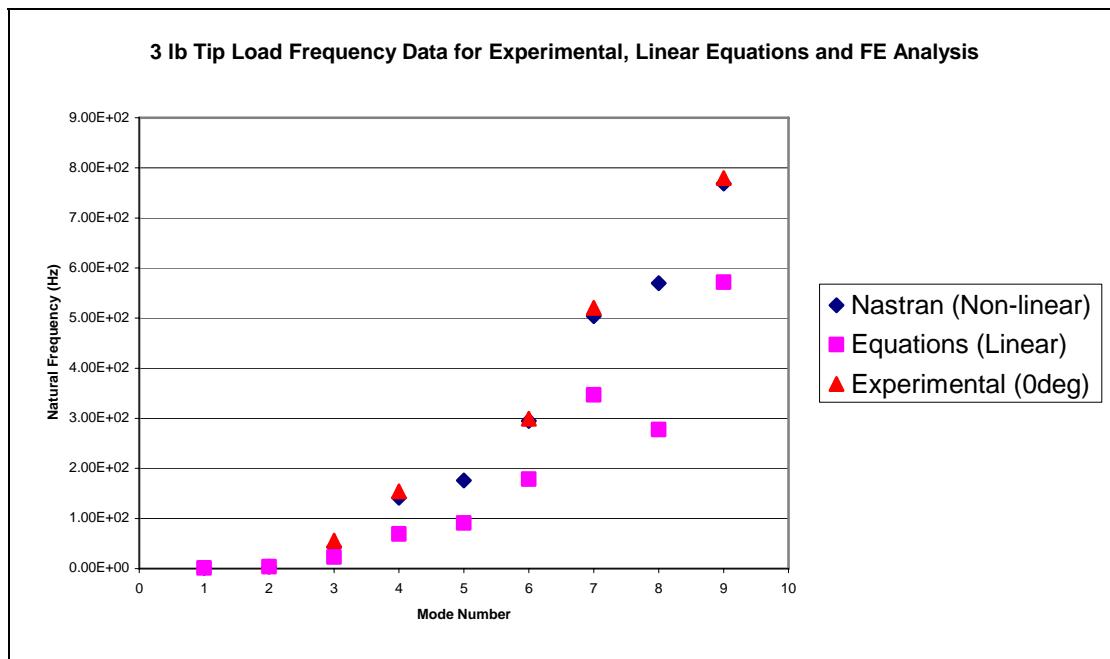


Figure 21: Frequency Comparison for Experimental and Linear Equations for a Three Pound Tip Weight

The three pound tip mass caused a maximum error of 144.4% with the linear equations and only 27.3% with finite element analysis.

## 4.2 Mode Shape Analysis

During the post processing of the data, the Polytec software ordered the data in the output file depending on the order in which the beam was scanned. The output file contained the displacement from the origin determined during the 3-D scan and the magnitudes of velocity. There were few changes to the raw data (Appendix A) that were needed to view the mode shape correctly. One of these changes was to determine when a negative sign was needed on the velocity which could be done by viewing the mode shape on the Polytec viewing tool. The second is to put the data points in the correct order. The Polytec software gave a position of each data point based on an origin and x-direction determined during the 3D alignment part of the setup, which made it possible to put all the data points in order by sorting the x-position. After the data was sorted and the correct sign was added to make the mode shape look correct, the x-position and velocity were normalized so that the x-position went from zero to one and the largest magnitude of velocity was  $\pm 1$ .

During one experiment, a natural frequency was found close to 60 Hz for no tip mass for 0 deg, 15 deg and 45 deg. The mode shape for this frequency is the second mode in the flatwise direction and can be seen in Figures 22-24.



Figure 22: Mode Shape for No Tip Weight at Zero Degree Root Pitch Angle With a 60Hz Frequency

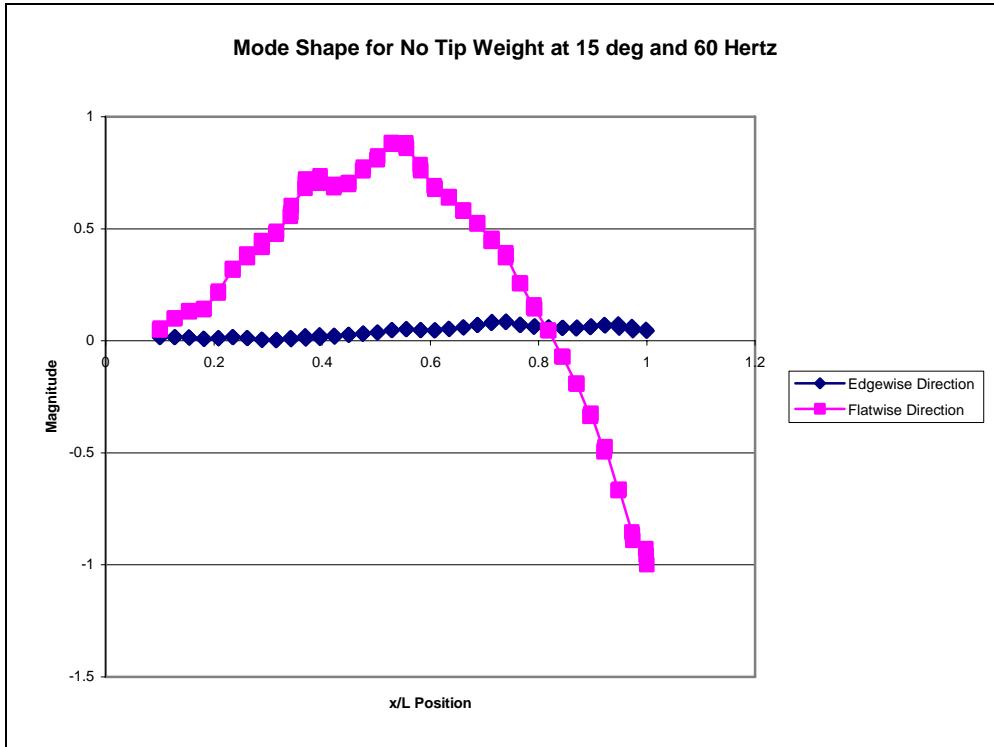


Figure 23: Mode Shape for No Tip Weight at 15 Degree Root Pitch Angle With a 60Hz Frequency



Figure 24: Mode Shape for No Tip Weight at 45 Degree Root Pitch Angle With a 60Hz Frequency

This linear relationship of the natural frequencies can more easily be seen in Figure 25

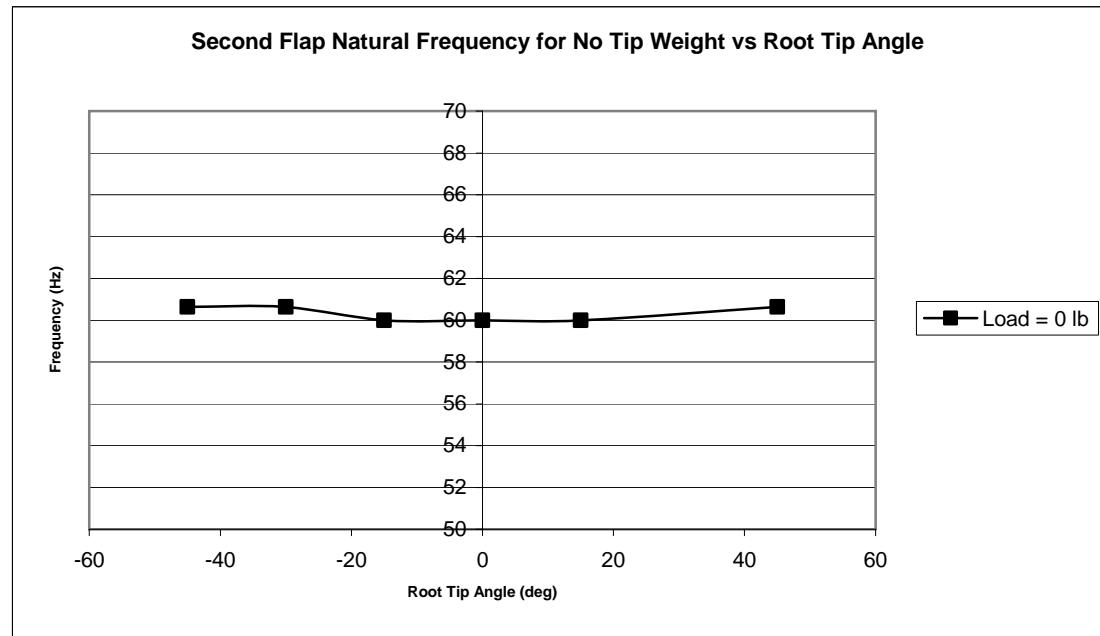


Figure 25: Frequencies Corresponding to Figures 22-24

The variation in these frequencies is only 0.67 Hz, a 1.1% change.

When a tip weight was added, a much larger change in the natural frequency can be seen. Figure 26-28 show the third mode shape for a three pound tip load at 160.0, 149.4, and 154.4 Hz respectively.

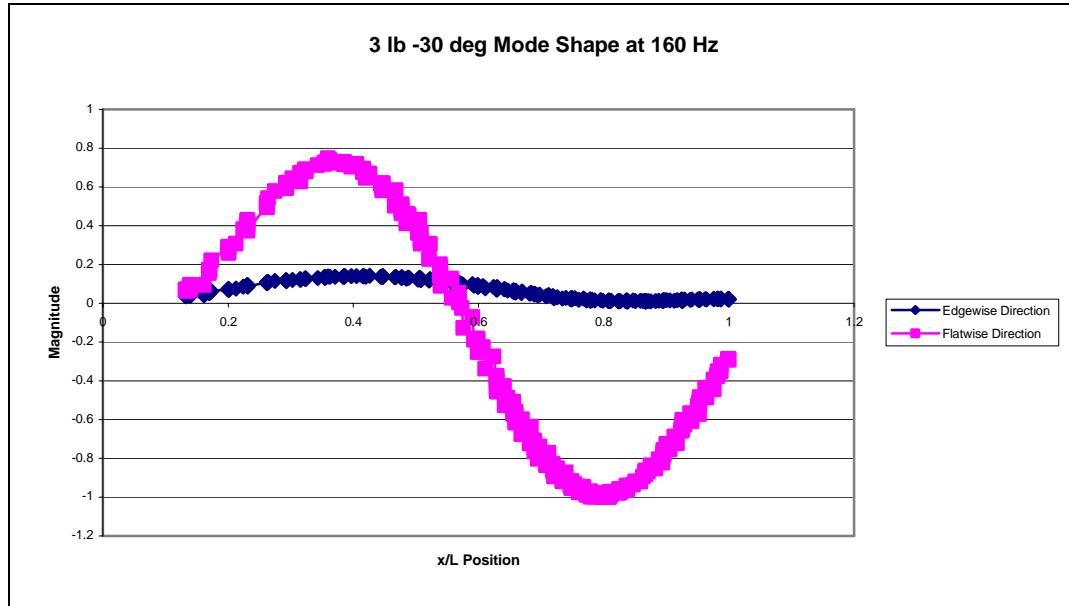


Figure 26: Mode Shape for Three Pound Tip Weight at 30 Degree Root Pitch Angle with a 160Hz Frequency

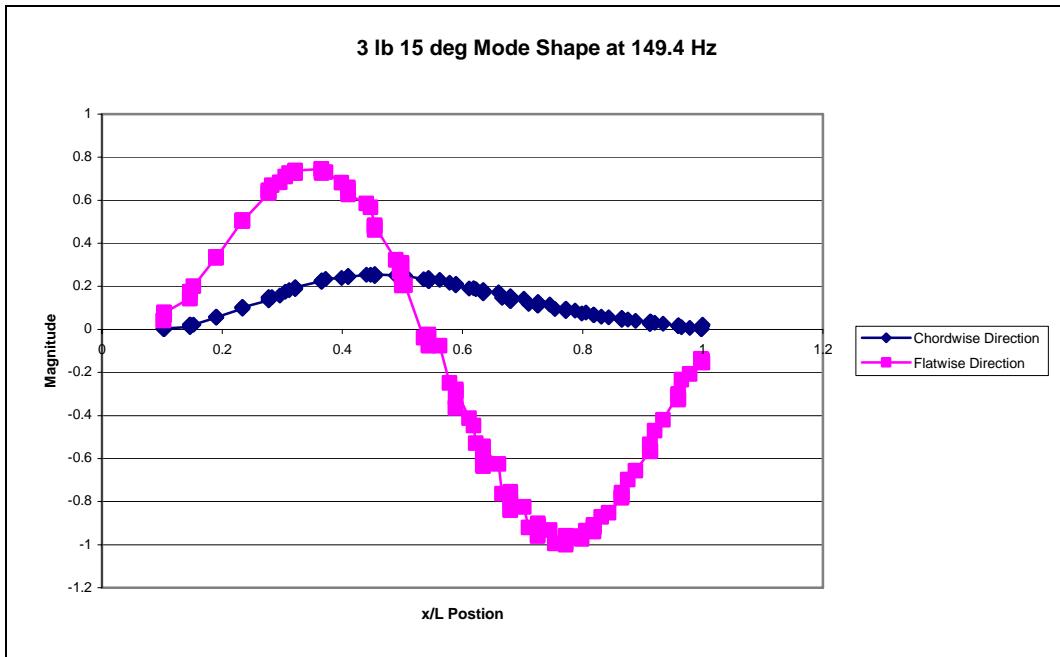


Figure 27: Mode Shape for Three Pound Tip Weight at 15 Degree Root Pitch Angle with a 149.4Hz Frequency

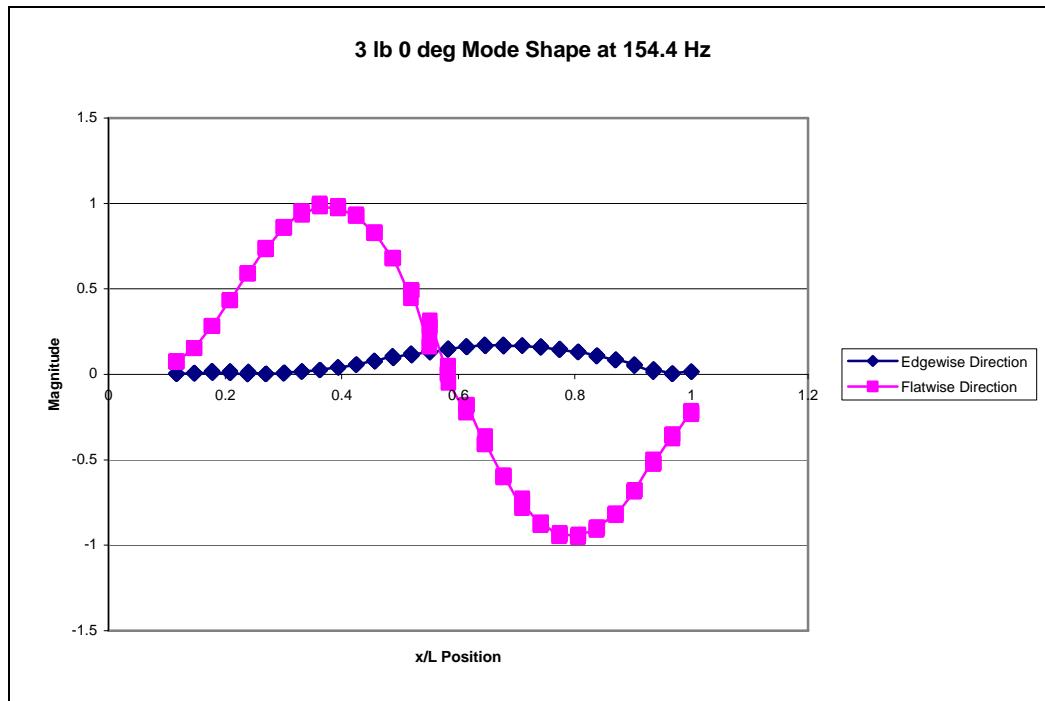


Figure 28: Mode Shape for Three Pound Tip Weight at Zero Degree Root Pitch Angle at 154.4Hz

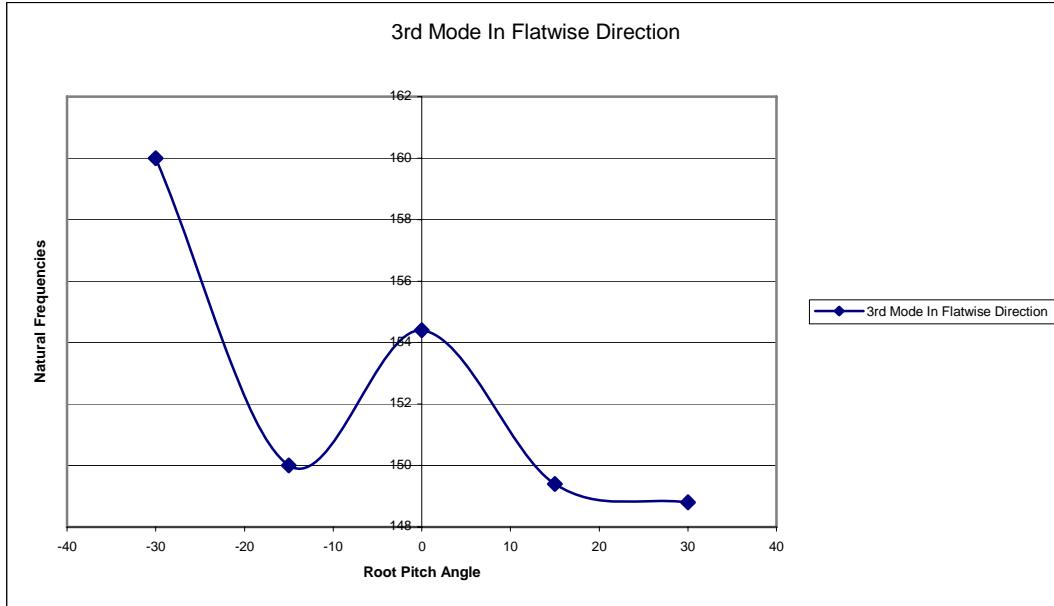


Figure 29: Frequencies Corresponding to Figures 26-28

For the case with a three pound tip weight for the third mode, the difference in frequencies for the same mode shape is 7.9% as seen in Figure 29. Figure 29 shows that the frequency response of the root pitch angle follows a nonlinear pattern.

#### 4.2.1 Mode Shape of No Tip Weight

Figures 30-33 show all measured mode shapes for no tip weights at varying angles. The mode shapes all have similar shapes and natural frequencies at varying root pitch angles. The largest variation in natural frequency corresponding to a particular mode shape is 4.4%.

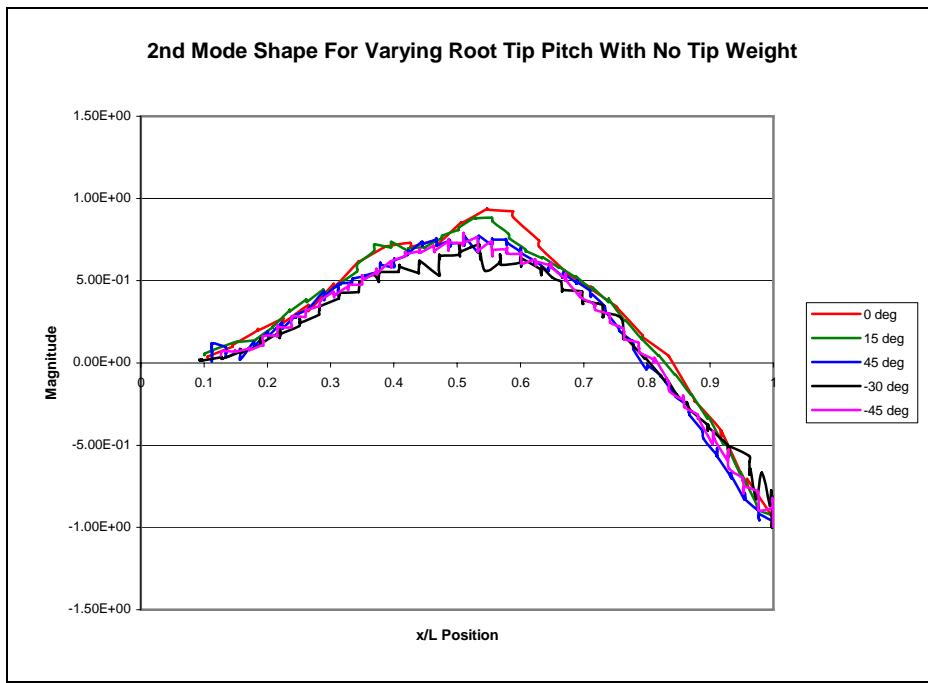


Figure 30: 2nd Mode Shape for the Beam at Varying Root Pitch Angles

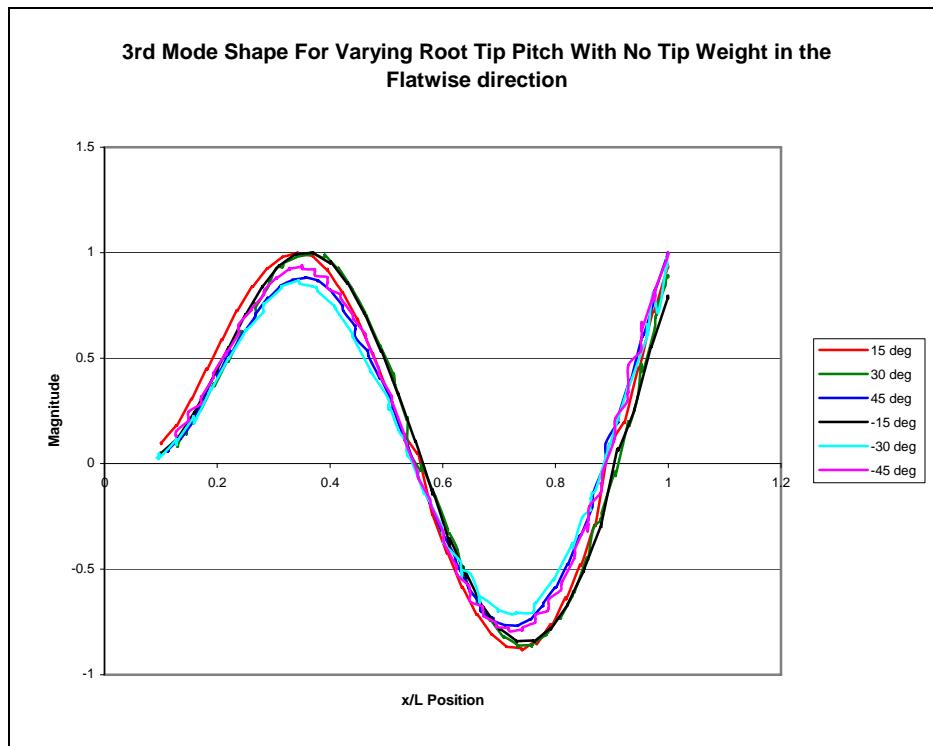


Figure 31: 3rd Mode Shape for the Beam at Varying Root Pitch Angles

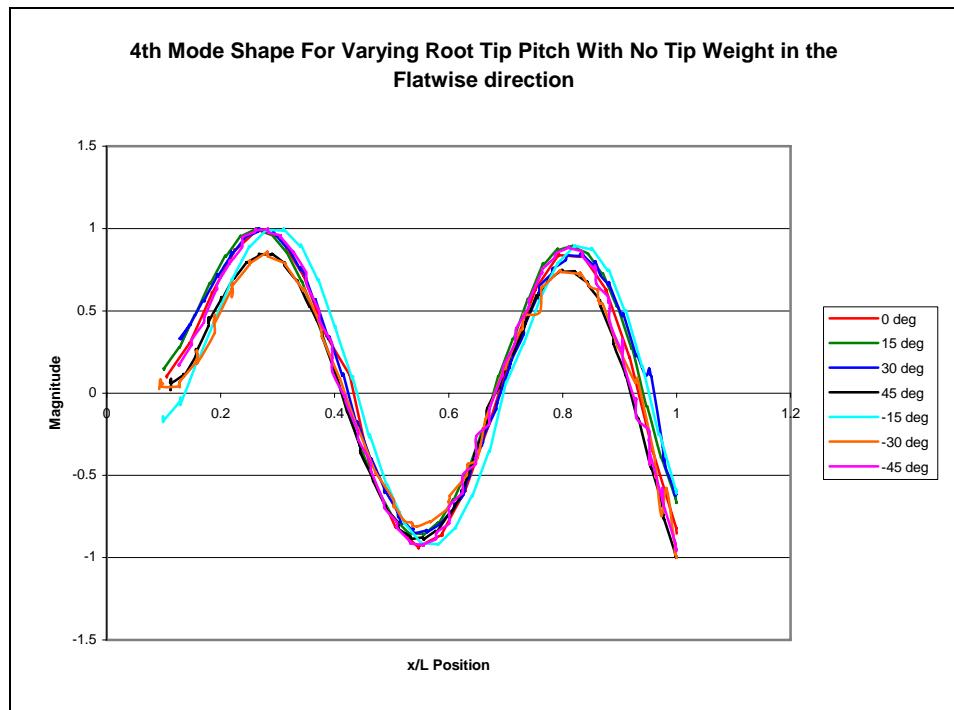


Figure 32: 4th Mode Shape for the Beam at Varying Root Pitch Angles

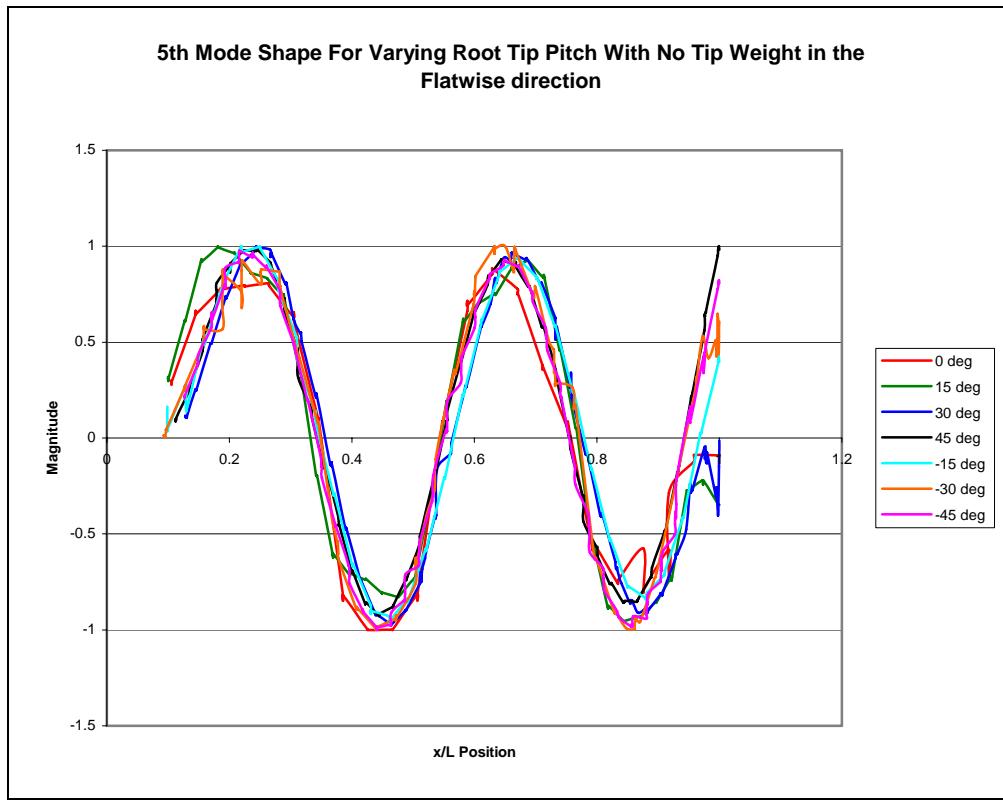


Figure 33: 5th Mode Shape for the Beam at Varying Root Pitch Angles

The frequencies which correspond to these modes are very similar and are represented in Table 7.

Table 7: Corresponding Frequencies to the Mode Shapes Found in Figure 30-33

	Experimental No Tip Weight						
	-45 deg	-30 deg	-15 deg	0 deg	15 deg	30 deg	45 deg
2nd mode	60.63	60.63	60	60	60		60.63
3rd mode	167.5	168.8	169.4		168.8	168.8	169.4
4th mode	333.8	341.3	348.4	338.1	341.3	320	335.6
5th mode	554.4	555.6	550	556.3	557.5	554.4	556.3

#### 4.2.2 Mode Shapes of One Pound Tip Weight

Once a tip weight is added, although the mode shapes do not change much, the modal frequencies corresponding to these mode shapes do change with root pitch angle. The mode shapes and corresponding frequencies can be seen in Figures 34-38 and Table 8. The largest variation in natural frequency corresponding to a particular mode shape is 7.2%.

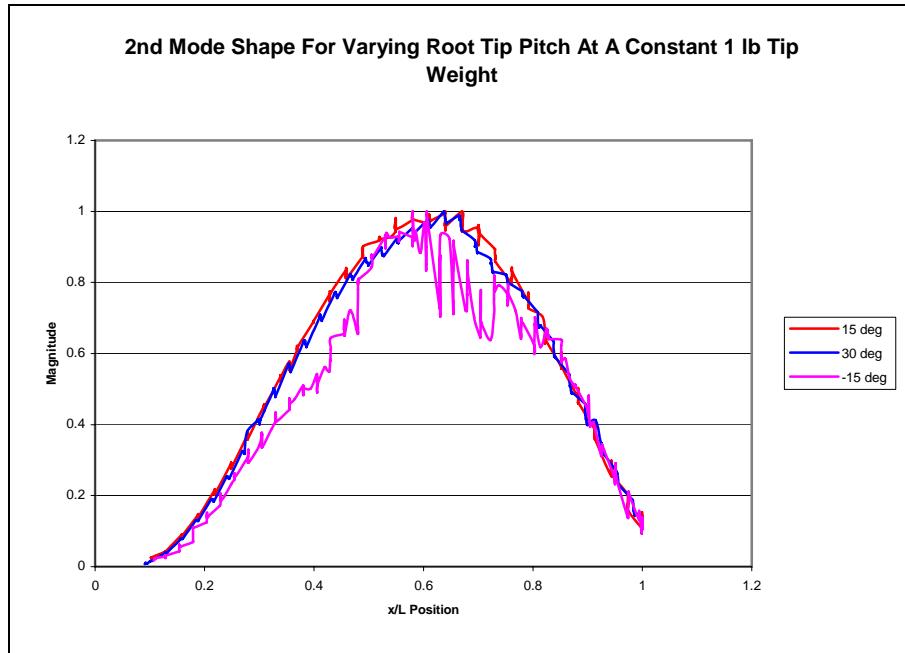


Figure 34: 2nd Mode Shape for the Beam at Varying Root Pitch Angles with a One Pound Tip Weight

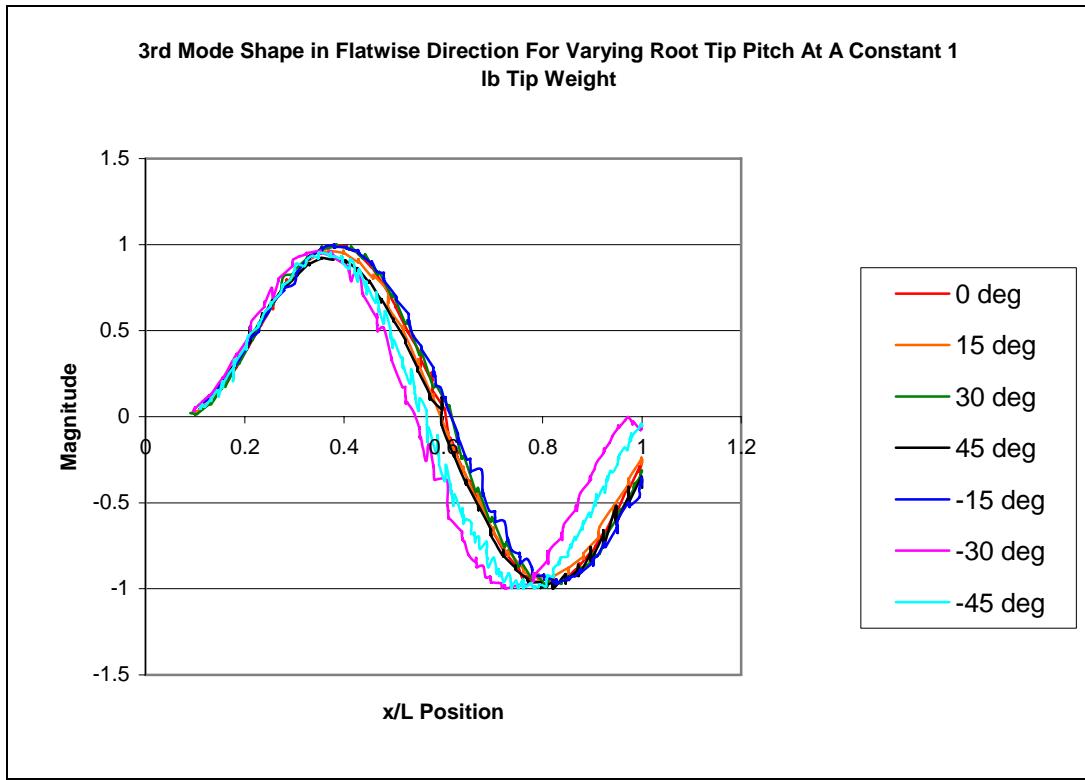


Figure 35: 3rd Mode Shape for the Beam at Varying Root Pitch Angles with a One Pound Tip Weight

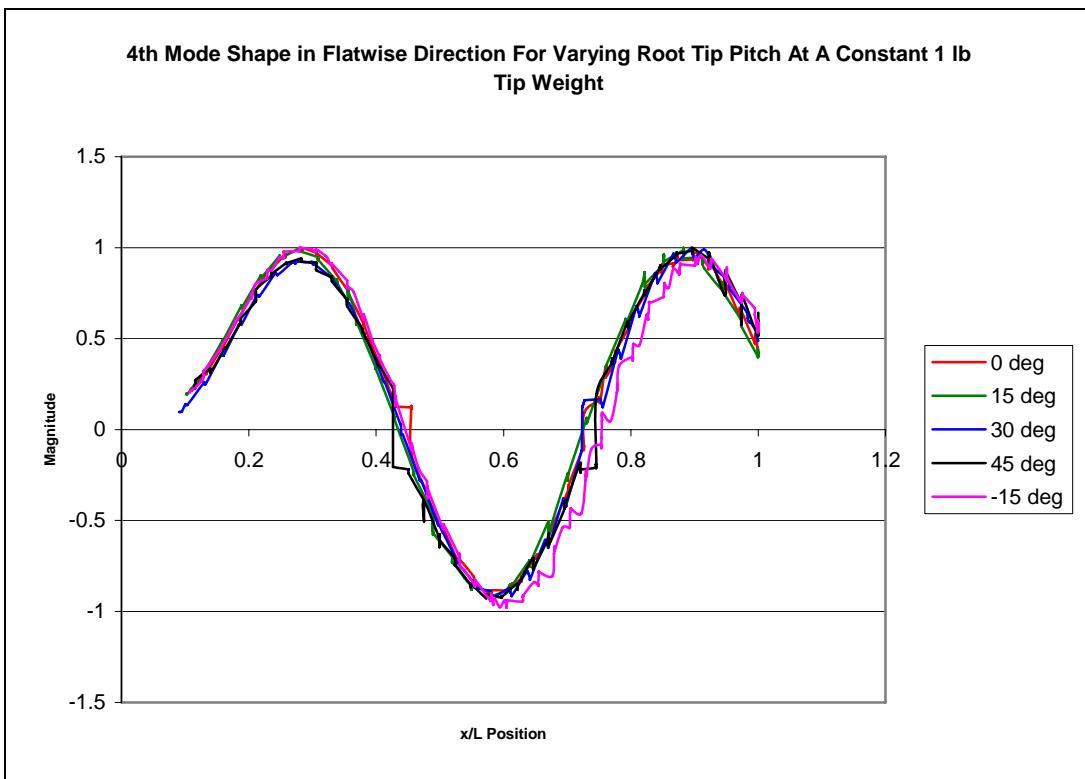


Figure 36: 4th Mode Shape for the Beam at Varying Root Pitch Angles with a One Pound Tip Weight

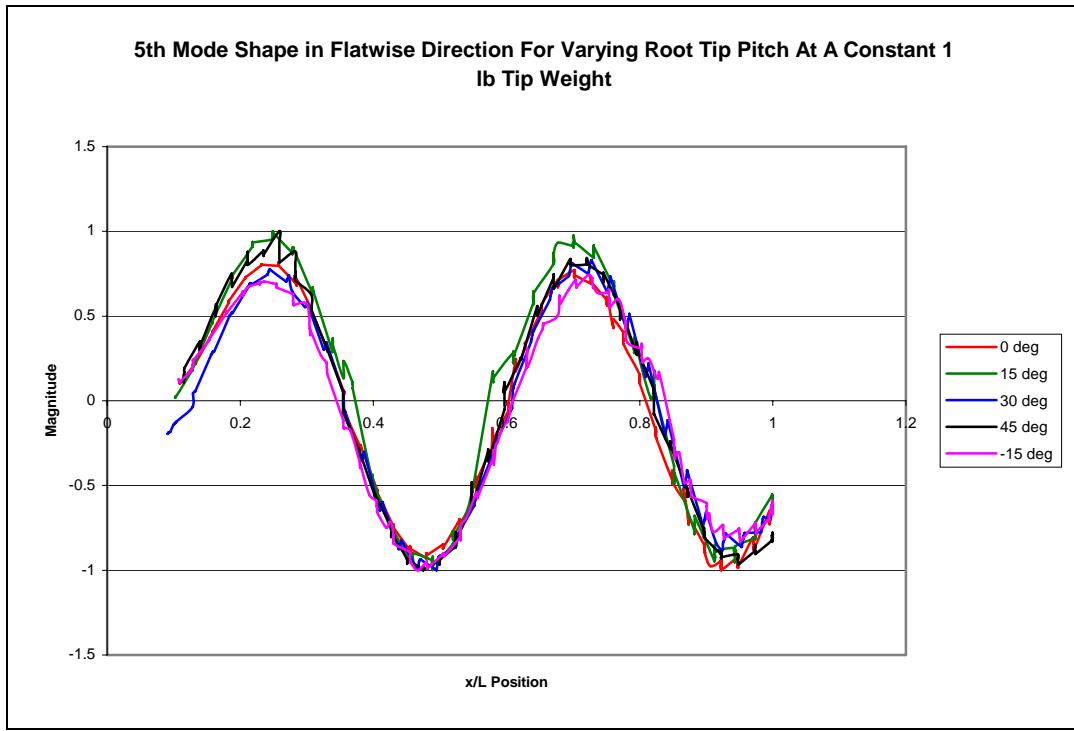


Figure 37: 5th Mode Shape for the Beam at Varying Root Pitch Angles with a One Pound Tip Weight

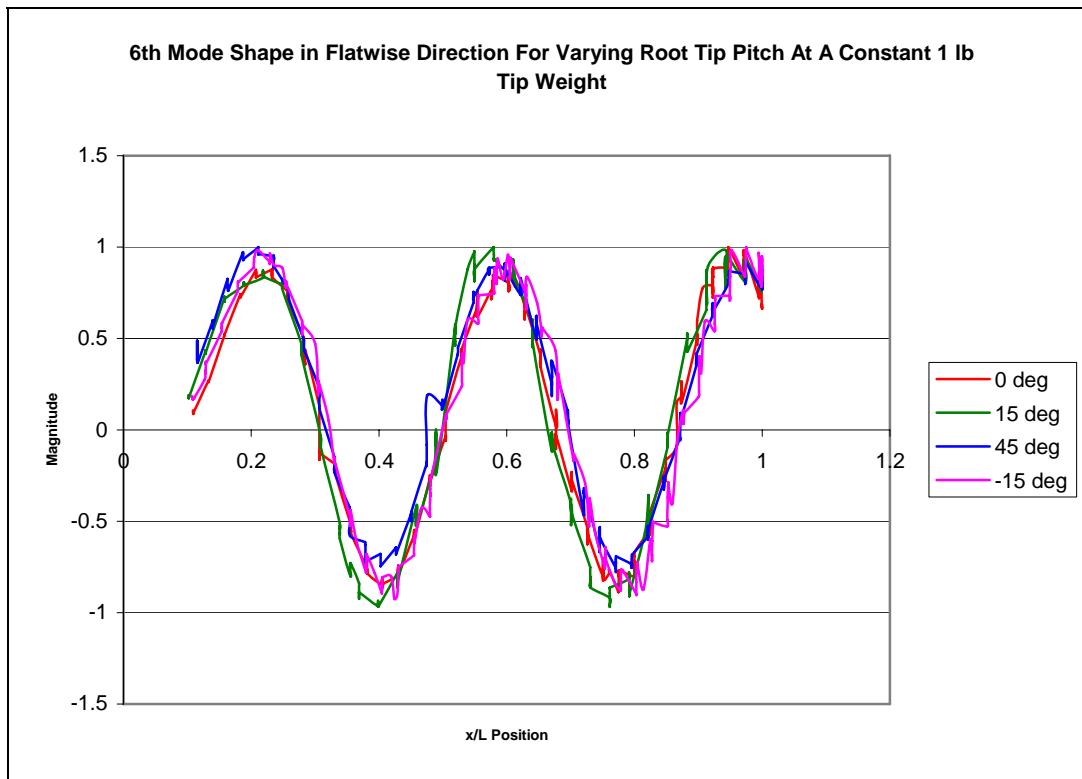


Figure 38: 6th Mode Shape for the Beam at Varying Root Pitch Angles with a One Pound Tip Weight

The one pound tip weight has very similar mode shapes; however the frequencies for these mode shapes are very different which can be seen in Table 8.

Table 8: Frequencies Corresponding to Mode Shapes from Figures 34-38

	Experimental 1lb Tip Weight						
	-45 deg	-30 deg	-15 deg	0 deg	15 deg	30 deg	45 deg
2nd mode			47.5		48.13	48.13	
3rd mode	150	183.1	146.3	151.3	147.5	147.5	150
4th mode			285.6	291.3	290	291.3	306.3
5th mode			477.5	493.8	496.3	493.1	506.9
6th mode			755.6	763.1	755		774.4

#### 4.2.3 Mode Shape of Three Pound Tip Weight

The mode shapes for the three pound tip weights can be seen in Figures 39-43. All the mode shapes again look very similar; however, the natural frequencies for these mode shapes fluctuate with a change in root pitch angle. The largest fluctuation is 21.6%.

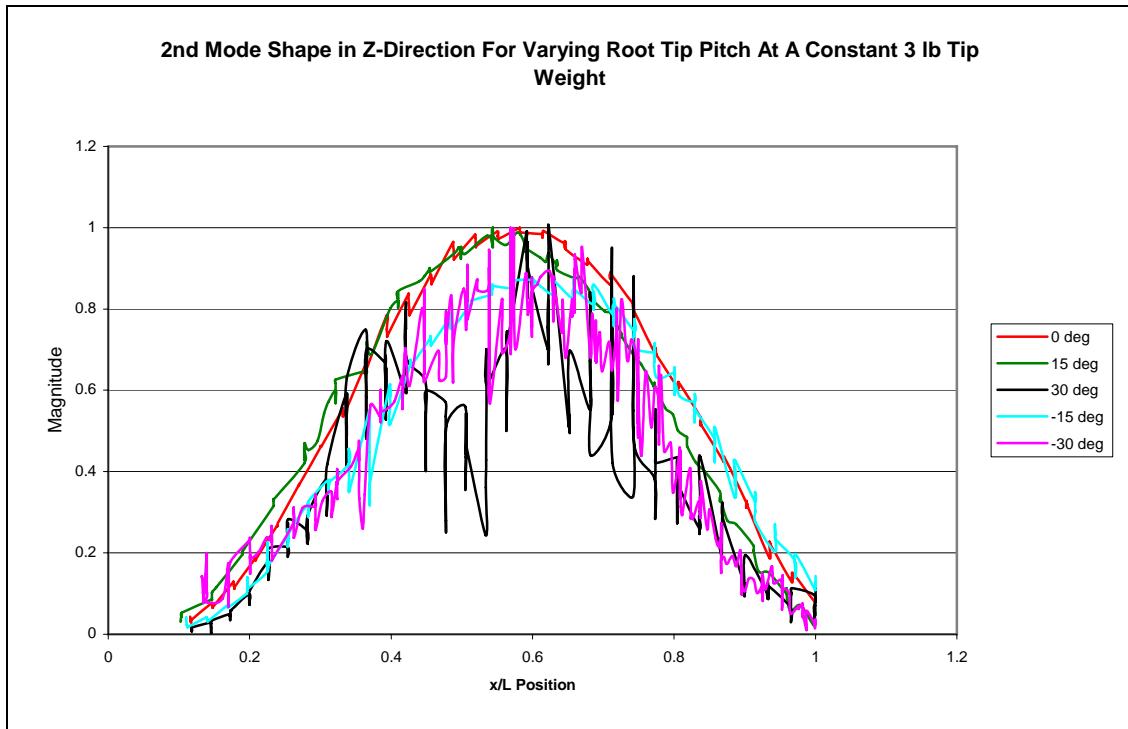


Figure 39: 2nd Mode Shape for the Beam at Varying Root Pitch Angles with a Three Pound Tip Weight

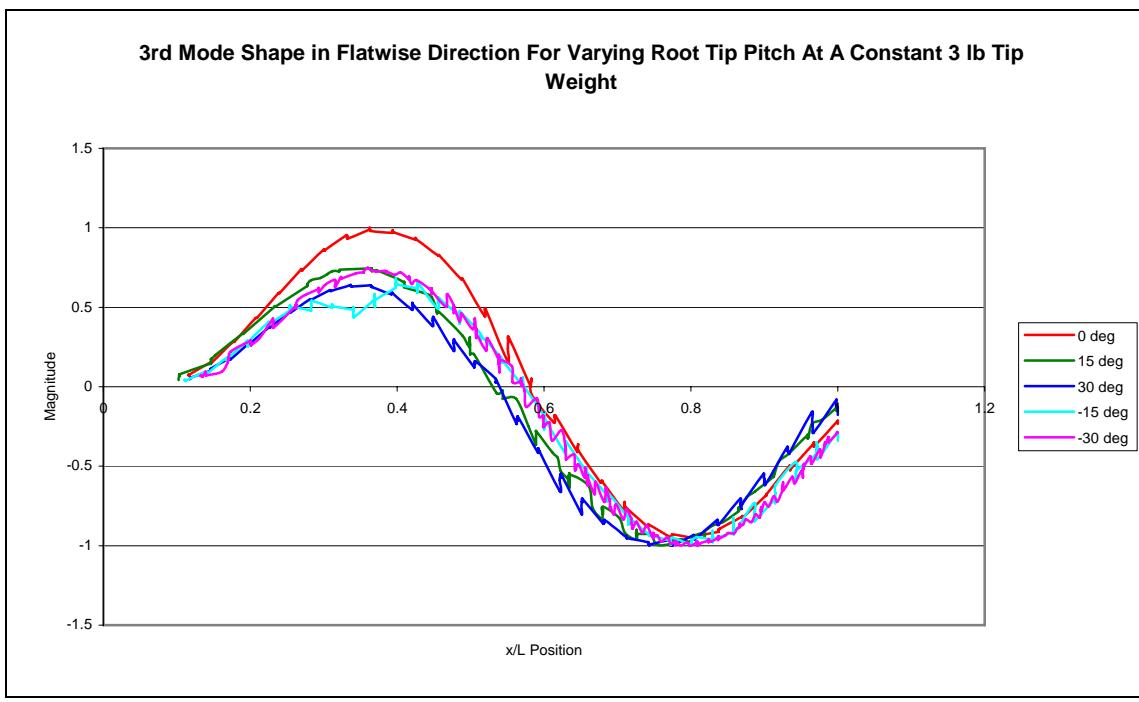


Figure 40: 3rd Mode Shape for the Beam at Varying Root Pitch Angles with a Three Pound Tip Weight

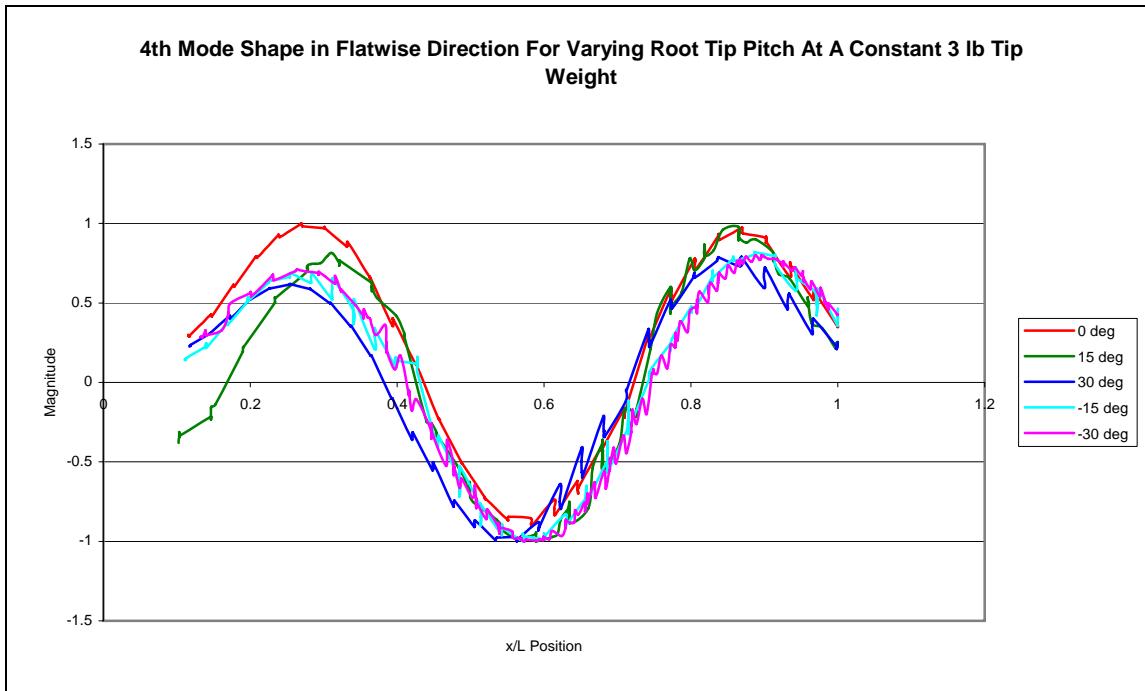


Figure 41: 4th Mode Shape for the Beam at Varying Root Pitch Angles with a Three Pound Tip Weight

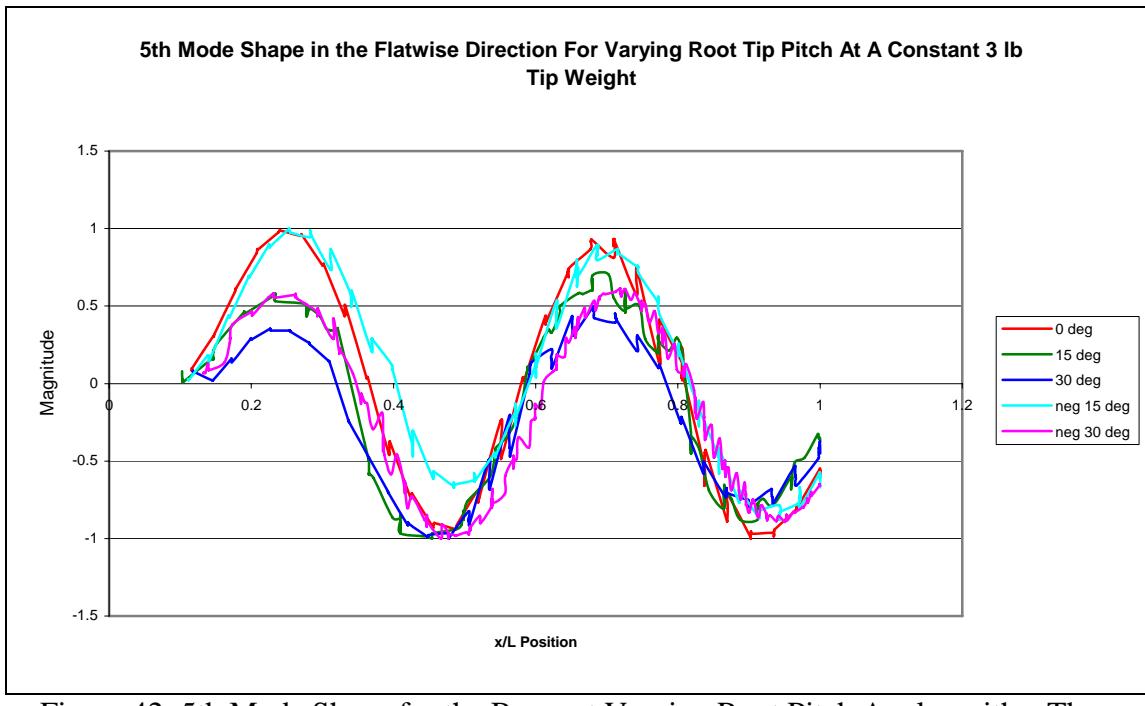


Figure 42: 5th Mode Shape for the Beam at Varying Root Pitch Angles with a Three Pound Tip Weight

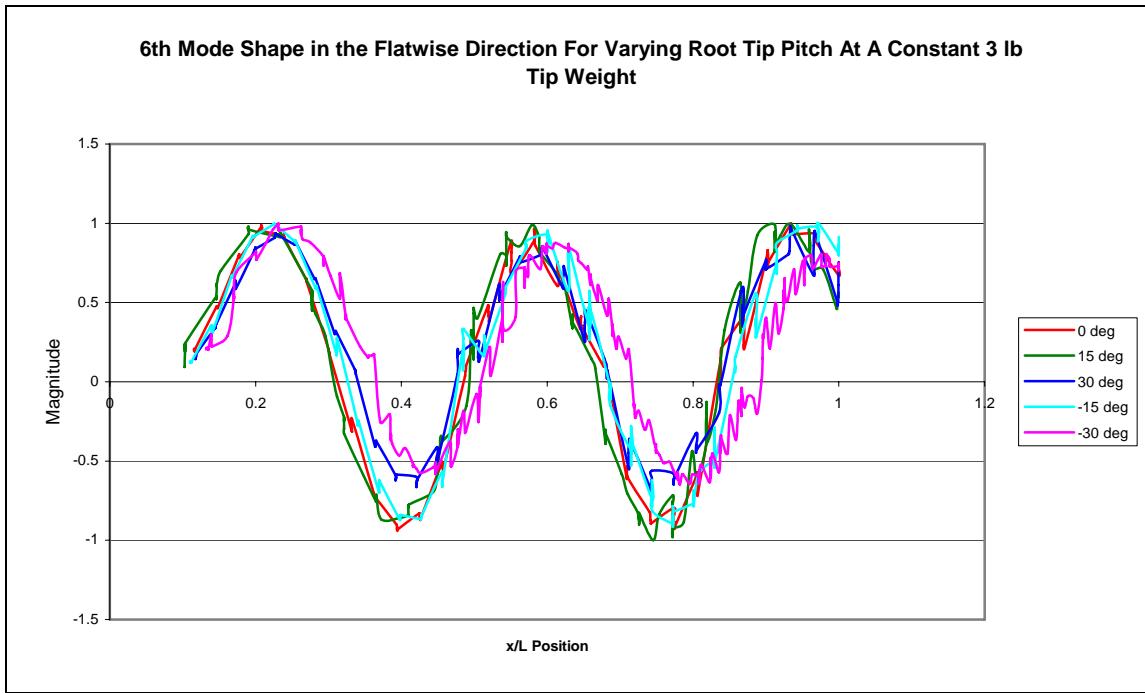


Figure 43: 6th Mode Shape for the Beam at Varying Root Pitch Angles with a Three Pound Tip Weight

Table 9: Frequencies Corresponding to Mode Shapes from Figures 39-43

	Experimental 3lb Tip Weight				
	-30 deg	-15 deg	0 deg	15 deg	30 deg
2nd mode	60	66.88	55.63	39.38	55
3rd mode	160	150	154.4	149.4	148.8
4th mode	301.9	295.6	299.4	285	293.1
5th mode	535.6	550	520.6	496.9	502.5
6th mode	841.3	792.5	780	800.6	808.1

## 5. Discussion

Following the experiment, the raw data was analyzed and appears to have promising results. Due to time constraints, multiple tests could not be completed to verify results; however, when compared to previous experiments, linear theory and a nonlinear finite element analysis, much of the results seem to be of good quality.

### 5.1 Conclusion and Recommendations

This investigation has found the nonlinear frequency response of a beam at varying pitch angles when a tip weight is added. This information can be useful in initial helicopter blade design since the nonlinear effects must be taken into account. The data also can validate finite element analysis programs. Although there were frequency results from the Princeton Beam Experiment, this investigation acquired data up to 2000 Hz, which encompasses up to the 6<sup>th</sup> mode for most cases.

The use of the laser vibrometer made the resolution of the results very accurate and acquired data for higher modes compared to that of the Princeton Beam Experiments. The linear results of the beam with no tip weights were extremely accurate with the linear equations. The laser vibrometer has an uncertainty of  $\pm 0.01562$  Hz, which, for the frequencies tested is less than 0.1% uncertainty for the worst case. However, there were problems that were encountered from the laser vibrometer. In previous experiments there were problems with the laser having insufficient scatter off of the beam, this was relieved by spraying the beam with a white reflective spray. Although this helped the situation, the deflection at  $\pm 45^\circ$  with weights of 3 lbs or higher caused problems for the limited

vertical position of the lasers. In future tests this can be fixed by using stands which can hold the lasers at a higher position in order to decrease the angle.

Using the periodic chirp ended up not giving good results for the y-direction bending or for the twist. Only for one case, the 0 lb at 45 degrees was satisfactory twist and y-deflection data taken. This may be due to the excitation speaker being placed only in the z-direction. Testing with two speakers or just two separate tests may alleviate this problem.

The laser vibrometer measures velocities at every point determined by the generated grid. While measuring the velocities for modes in the flatwise direction, the magnitudes of the velocities differed from points that were in the same x-position, figure 43 does a great job in conveying this. The magnitude of the mode shape in Figure 43 variates and causes the graph to look inaccurate. This problem can be fixed multiple ways, one of which is by making a grid which only goes down the centerline of the beam. The problem with this approach would be the inability to measure twist. Another way to alleviate this problem is to use a densely populated grid and find the points from the data closest to the centerline and interpolate the magnitudes and positions of the points to represent the centerline. Fixing the problem with the changing velocities at the same x-position would eliminate the tooth-like appearance of the mode shape.

The use of the 3-D laser vibrometer made the testing run very smoothly. It was able to measure approximate static deflections, natural frequencies, and plot the mode shapes. Except for the negligible mass of the spray paint the laser vibrometer did not require any measuring devices fixed to the test specimen. Thus the measurements are free of error due to added mass/stiffness. The disadvantage of the 3-D laser vibrometer was

the amount of time each test took to set-up. This was caused by the 3-D alignment part of the set-up.

## Appendix A: Raw Data for Frequencies` Below 250 Hz

beam_0lb_0deg_fast_60Hz					
FFT - Vib 3D Velocity -			Magnitude		
0 dB = 1 m/s					
1					
60.00 Hz					
Yes					
Yes					
X	Y	Z	Mag X	Mag Y	Mag Z
0.0567627	0.0187332	-0.0050961	9.12E-07	2.36E-06	8.86E-06
0.0567049	0.016055	-0.0046505	2.33E-07	7.30E-07	7.37E-06
0.0565818	0.0132307	-0.0051882	1.71E-07	8.23E-07	7.99E-06
0.0780054	0.0184938	-0.0048264	2.46E-06	4.52E-06	2.46E-05
0.0779256	0.0157407	-0.0049761	2.15E-06	6.00E-06	2.31E-05
0.0778618	0.0130975	-0.0041274	1.86E-06	3.91E-06	2.24E-05
0.0993654	0.0183413	-0.0040044	3.65E-06	4.99E-06	4.46E-05
0.0992842	0.0156359	-0.0036564	3.37E-06	6.82E-06	4.64E-05
0.0991898	0.0128535	-0.003899	3.62E-06	6.45E-06	4.47E-05
0.120777	0.0183036	-0.0021245	4.49E-06	3.01E-06	5.49E-05
0.1207	0.0156527	-0.0013809	4.54E-06	6.78E-06	5.94E-05
0.120623	0.0127518	-0.0024156	4.58E-06	6.32E-06	6.11E-05
0.142231	0.0182412	-0.0005781	5.84E-06	3.35E-06	7.11E-05
0.142173	0.0152923	-0.0020147	5.13E-06	4.70E-06	7.70E-05
0.142088	0.0127273	-0.0004717	5.72E-06	4.27E-06	7.96E-05
0.163765	0.0179398	-0.0007462	7.35E-06	3.96E-06	0.000103876
0.16369	0.0153231	0.00039544	6.97E-06	3.76E-06	0.000108112
0.163628	0.0124374	-0.0005413	6.91E-06	4.23E-06	0.000108539
0.185331	0.0179936	0.0017336	8.43E-06	5.04E-06	0.000139073
0.185249	0.0152778	0.00208058	7.79E-06	5.19E-06	0.000139887
0.185189	0.0124401	0.00164131	7.89E-06	5.03E-06	0.000139949
0.206981	0.0177841	0.00230566	7.87E-06	4.11E-06	0.000159843
0.206948	0.0149138	0.00146303	7.81E-06	5.28E-06	0.0001594
0.206857	0.012287	0.00250822	7.65E-06	6.24E-06	0.000159391
0.228673	0.0176902	0.00364562	8.56E-06	3.30E-06	0.00015892
0.228639	0.0148402	0.00310252	8.52E-06	4.57E-06	0.000159189
0.228515	0.0122276	0.00424482	8.47E-06	6.49E-06	0.000164938
0.250384	0.017656	0.00545921	9.07E-06	2.80E-06	0.000160509
0.250381	0.0147681	0.00461923	8.93E-06	3.63E-06	0.000160448
0.250299	0.0120332	0.00497123	8.89E-06	5.61E-06	0.000168084
0.272182	0.0175363	0.00676114	9.63E-06	5.34E-06	0.000192036

0.272115	0.0147764	0.00691035	9.60E-06	5.22E-06	0.000192282
0.271978	0.0121336	0.00795349	9.54E-06	6.03E-06	0.000193004
0.294011	0.0174573	0.00824059	9.41E-06	9.52E-06	0.000210127
0.293956	0.0146839	0.00829074	9.47E-06	9.59E-06	0.00021205
0.293874	0.0119751	0.00884065	9.51E-06	9.46E-06	0.000211731
0.315858	0.0174388	0.0101994	7.80E-06	1.29E-05	0.000199964
0.315849	0.0145951	0.00985722	7.89E-06	1.29E-05	0.000207982
0.315818	0.0117942	0.00971448	8.01E-06	1.26E-05	0.000208267
0.337863	0.0172595	0.0110606	5.67E-06	1.33E-05	0.000159644
0.337758	0.0145474	0.0116031	5.70E-06	1.36E-05	0.000166512
0.337728	0.0117714	0.0116597	5.78E-06	1.31E-05	0.000167895
0.359842	0.0171851	0.0125967	3.38E-06	1.15E-05	0.000124464
0.359688	0.0145353	0.0136325	3.26E-06	1.19E-05	0.000126308
0.359709	0.0116745	0.0131978	3.26E-06	1.20E-05	0.00012683
0.381781	0.0172099	0.0149098	1.33E-06	1.02E-05	0.000101719
0.381727	0.0144248	0.0150606	7.64E-07	1.08E-05	0.000104912
0.381705	0.0116451	0.0151179	6.02E-07	1.12E-05	0.000103556
0.403774	0.0171887	0.0170154	3.04E-06	9.63E-06	7.32E-05
0.403831	0.0143303	0.0164781	3.33E-06	1.00E-05	7.63E-05
0.403597	0.0117296	0.0179071	3.60E-06	1.01E-05	7.74E-05
0.425987	0.0170319	0.0179308	7.48E-06	7.45E-06	3.50E-05
0.425756	0.0144131	0.0192557	7.92E-06	8.36E-06	3.79E-05
0.425824	0.0115326	0.0187269	7.78E-06	8.56E-06	3.78E-05
0.448023	0.0170635	0.0203083	9.91E-06	6.86E-06	9.26E-06
0.447977	0.0143012	0.0205581	9.88E-06	8.71E-06	9.79E-06
0.44793	0.0115074	0.0207137	9.91E-06	8.99E-06	9.84E-06
0.470047	0.0171186	0.0228684	1.23E-05	6.95E-06	5.12E-05
0.470099	0.0142711	0.0226342	1.22E-05	8.13E-06	5.17E-05
0.470054	0.0114926	0.0227878	1.23E-05	7.14E-06	5.26E-05
0.492426	0.016964	0.0239674	1.58E-05	7.08E-06	9.33E-05
0.492139	0.0143342	0.0252815	1.57E-05	6.91E-06	9.22E-05
0.492322	0.0114105	0.0243681	1.71E-05	4.89E-06	0.000102108
0.514361	0.0171168	0.0272851	2.31E-05	4.93E-06	0.000162466
0.514496	0.0142293	0.0266608	2.31E-05	4.96E-06	0.000159393
0.514348	0.0115072	0.0272989	2.46E-05	4.51E-06	0.000169696
0.5366	0.0170853	0.0293344	3.04E-05	6.21E-06	0.000225847
0.536726	0.0142246	0.0288071	2.92E-05	6.16E-06	0.000215814
0.536436	0.0115753	0.0300231	2.94E-05	6.51E-06	0.000213912

Source File Name: beam\_0lb\_15deg\_fast\_60Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 60.00 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0525786	0.0183739	-0.00945197	2.37E-06	5.98E-06	1.72E-05
0.0524399	0.0150012	-0.00808787	1.62E-06	5.13E-06	1.52E-05
0.052145	0.0119172	-0.00807937	7.81E-07	4.73E-06	1.49E-05
0.066827	0.0163648	-0.00757013	5.15E-07	5.28E-06	3.06E-05
0.0664505	0.0134657	-0.00854681	3.04E-07	4.85E-06	3.06E-05
0.0662332	0.0102044	-0.00765938	2.68E-07	5.03E-06	2.98E-05
0.0808676	0.0147424	-0.00762213	6.43E-07	4.09E-06	3.96E-05
0.0806053	0.0116024	-0.00732618	4.66E-07	4.51E-06	4.07E-05
0.0802319	0.00866764	-0.00809994	6.99E-07	4.88E-06	4.04E-05
0.0949482	0.0129953	-0.0070707	9.43E-07	2.33E-06	4.40E-05
0.0946236	0.00996159	-0.00725992	3.95E-07	2.63E-06	4.29E-05
0.0943447	0.00682896	-0.00705792	3.36E-07	3.35E-06	4.24E-05
0.10896	0.0113858	-0.00708219	5.44E-07	3.30E-06	6.75E-05
0.108701	0.00817545	-0.00649368	4.26E-07	3.65E-06	6.55E-05
0.108385	0.00516352	-0.00677591	2.92E-07	3.97E-06	6.54E-05
0.123021	0.00963239	-0.00649465	9.12E-07	4.74E-06	9.64E-05
0.12269	0.00660472	-0.0066824	9.71E-07	5.01E-06	9.89E-05
0.122422	0.00340018	-0.00608656	9.12E-07	5.47E-06	9.76E-05
0.137046	0.00793566	-0.00607972	1.55E-06	3.41E-06	0.00011
0.136734	0.00479454	-0.00578073	1.64E-06	3.78E-06	0.00012
0.136441	0.00165319	-0.0054772	1.63E-06	4.12E-06	0.00012
0.151037	0.00625965	-0.00584514	2.04E-06	1.23E-06	0.00013
0.150734	0.00315642	-0.00564105	2.03E-06	1.09E-06	0.00013
0.150382	0.000175933	-0.00611934	2.20E-06	1.89E-06	0.00014
0.165022	0.00463679	-0.00578572	2.15E-06	1.58E-06	0.00015
0.164711	0.00151814	-0.00558433	2.22E-06	1.38E-06	0.00015
0.164368	-0.00151886	-0.00576821	2.14E-06	3.72E-07	0.00015
0.178997	0.00295479	-0.00551552	2.55E-06	3.27E-06	0.00018
0.178689	-0.000202205	-0.00501579	2.45E-06	1.64E-06	0.00017
0.178359	-0.00335241	-0.00461065	2.07E-06	4.12E-06	0.00017
0.192956	0.00132767	-0.00541986	3.49E-06	2.67E-06	0.00022
0.192653	-0.00203868	-0.00394201	2.85E-06	4.21E-06	0.00022
0.192325	-0.00511054	-0.00392928	2.52E-06	6.72E-06	0.00021
0.206908	-0.000475245	-0.00452526	3.97E-06	4.15E-06	0.00023
0.206564	-0.00362421	-0.00402336	3.92E-06	3.63E-06	0.00022
0.206237	-0.00680958	-0.00342138	3.49E-06	7.86E-06	0.00022
0.22084	-0.00241657	-0.00282442	3.89E-06	5.34E-06	0.00021
0.220485	-0.00550166	-0.00271768	3.53E-06	6.94E-06	0.00021
0.22015	-0.00839889	-0.00348579	3.65E-06	7.27E-06	0.00021
0.234752	-0.00404893	-0.00267562	4.02E-06	8.12E-06	0.00022
0.234396	-0.00701796	-0.00315767	3.69E-06	8.57E-06	0.00021

0.234049	-0.0101796	-0.00265283	3.30E-06	8.39E-06	0.00022
0.248643	-0.00562073	-0.00300707	4.67E-06	1.00E-05	0.00024
0.248276	-0.00891721	-0.00171906	4.49E-06	1.04E-05	0.00023
0.24793	-0.011982	-0.00160288	4.12E-06	9.37E-06	0.00023
0.262528	-0.00741184	-0.00203913	4.81E-06	1.15E-05	0.00025
0.262171	-0.0105156	-0.00173234	4.73E-06	1.12E-05	0.00025
0.261794	-0.0136322	-0.00142311	4.77E-06	1.13E-05	0.00025
0.27637	-0.00925738	-0.00086154	4.38E-06	1.47E-05	0.00027
0.276011	-0.0122252	-0.00113995	4.53E-06	1.51E-05	0.00027
0.275647	-0.0153241	-0.000928793	4.50E-06	1.47E-05	0.00027
0.290242	-0.0108004	-0.00113586	3.76E-06	1.57E-05	0.00026
0.289853	-0.0139762	-0.000436358	3.97E-06	1.63E-05	0.00027
0.28948	-0.0169976	-0.000516426	4.01E-06	1.59E-05	0.00027
0.304022	-0.0126633	0.000171972	2.40E-06	1.47E-05	0.00023
0.303655	-0.0157068	0.00028635	2.77E-06	1.49E-05	0.00024
0.303293	-0.0187471	0.000203173	2.80E-06	1.45E-05	0.00024
0.317805	-0.0144535	0.00120475	1.47E-06	1.45E-05	0.00021
0.317442	-0.0174758	0.00111952	1.78E-06	1.45E-05	0.00021
0.317061	-0.0204947	0.0010393	1.74E-06	1.41E-05	0.00021
0.331612	-0.0161117	0.0014648	1.22E-06	1.61E-05	0.0002
0.331196	-0.0192059	0.00187247	1.18E-06	1.65E-05	0.0002
0.330861	-0.0221353	0.00130225	1.23E-06	1.65E-05	0.0002
0.345331	-0.0178983	0.00252662	1.06E-06	1.79E-05	0.00018
0.344981	-0.0208645	0.0021471	8.83E-07	1.85E-05	0.00018
0.344632	-0.023831	0.00177291	8.10E-07	1.86E-05	0.00018
0.359032	-0.0197229	0.00369773	1.63E-06	2.15E-05	0.00016
0.358673	-0.0227064	0.00341629	1.82E-06	2.19E-05	0.00016
0.358315	-0.0256334	0.00294671	1.76E-06	2.15E-05	0.00016
0.372737	-0.0214524	0.00439193	2.89E-06	2.51E-05	0.00014
0.372338	-0.0245083	0.00450202	2.65E-06	2.58E-05	0.00014
0.371946	-0.0274891	0.00442765	3.05E-06	2.43E-05	0.00014
0.386476	-0.0230913	0.00461054	4.60E-06	2.60E-05	0.00012
0.385976	-0.0263102	0.00570213	5.16E-06	2.66E-05	0.00012
0.385626	-0.0292185	0.00513448	4.58E-06	2.56E-05	0.00011
0.400175	-0.0247473	0.00504078	7.41E-06	2.17E-05	7.79E-05
0.399636	-0.028019	0.00632313	8.07E-06	2.25E-05	7.88E-05
0.399296	-0.0309311	0.00585794	8.19E-06	2.16E-05	7.80E-05
0.413794	-0.0265296	0.00606691	7.75E-06	2.01E-05	4.34E-05
0.413252	-0.0297818	0.00725014	9.26E-06	1.95E-05	4.86E-05
0.41287	-0.0327267	0.0069788	9.07E-06	1.90E-05	4.52E-05
0.427456	-0.0282019	0.00651787	8.84E-06	1.87E-05	1.37E-05
0.426938	-0.0313831	0.00741	9.21E-06	1.84E-05	1.40E-05
0.426569	-0.0343501	0.00713614	9.67E-06	1.76E-05	1.46E-05
0.441035	-0.0299817	0.00756669	1.05E-05	1.81E-05	2.24E-05
0.440553	-0.0330713	0.00796783	1.12E-05	1.74E-05	2.17E-05
0.440118	-0.0361089	0.00818491	1.14E-05	1.74E-05	2.12E-05
0.454525	-0.0318087	0.00891538	1.23E-05	1.84E-05	5.93E-05

0.454165	-0.0347608	0.00853771	1.30E-05	1.70E-05	5.83E-05
0.453549	-0.0380039	0.0098208	1.35E-05	1.68E-05	5.87E-05
0.468103	-0.0335124	0.00959296	1.39E-05	2.02E-05	9.96E-05
0.46762	-0.0365844	0.00989427	1.43E-05	1.88E-05	0.0001
0.467201	-0.0395882	0.00991471	1.44E-05	1.83E-05	0.0001
0.481533	-0.0353506	0.0109546	1.68E-05	2.08E-05	0.00015
0.48111	-0.038356	0.0109688	1.62E-05	2.20E-05	0.00015
0.480746	-0.0412721	0.0104997	1.68E-05	2.18E-05	0.00015
0.495052	-0.0370671	0.0117464	2.04E-05	1.75E-05	0.0002
0.494524	-0.0401563	0.012243	2.01E-05	1.98E-05	0.0002
0.49421	-0.0430423	0.0115815	2.04E-05	2.28E-05	0.00021
0.50857	-0.0387443	0.0123498	2.53E-05	1.41E-05	0.00027
0.508085	-0.0417836	0.0125534	2.37E-05	1.75E-05	0.00027
0.507496	-0.0449418	0.0134447	2.41E-05	1.93E-05	0.00026
0.521873	-0.0406251	0.0140232	2.82E-05	1.37E-05	0.00031
0.521493	-0.0435453	0.0136478	2.67E-05	1.38E-05	0.00029
0.521036	-0.0465699	0.0137613	2.55E-05	1.55E-05	0.00028

Source File Name: beam\_0lb\_15deg\_fast\_168.8Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 168.8 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0525786	0.0183739	-0.00945197	1.02E-05	2.78E-05	9.24E-05
0.0524399	0.0150012	-0.00808787	9.26E-06	2.49E-05	8.83E-05
0.052145	0.0119172	-0.00807937	9.68E-06	2.39E-05	9.32E-05
0.066827	0.0163648	-0.00757013	6.64E-06	2.95E-05	0.00017
0.0664505	0.0134657	-0.00854681	8.16E-06	2.64E-05	0.00017
0.0662332	0.0102044	-0.00765938	9.24E-06	2.52E-05	0.00017
0.0808676	0.0147424	-0.00762213	5.55E-06	2.63E-05	0.00029
0.0806053	0.0116024	-0.00732618	6.55E-06	2.61E-05	0.00029
0.0802319	0.00866764	-0.00809994	7.72E-06	2.37E-05	0.00029
0.0949482	0.0129953	-0.0070707	3.95E-06	1.83E-05	0.00042
0.0946236	0.00996159	-0.00725992	3.75E-06	1.73E-05	0.00042
0.0943447	0.00682896	-0.00705792	3.26E-06	1.64E-05	0.00042
0.10896	0.0113858	-0.00708219	4.71E-06	1.62E-05	0.00055
0.108701	0.00817545	-0.00649368	4.77E-06	1.71E-05	0.00056
0.108385	0.00516352	-0.00677591	6.49E-06	1.64E-05	0.00056
0.123021	0.00963239	-0.00649465	5.24E-06	1.76E-05	0.00068
0.122269	0.00660472	-0.0066824	5.14E-06	2.04E-05	0.00069
0.122422	0.00340018	-0.00608656	6.87E-06	2.05E-05	0.00069
0.137046	0.00793566	-0.00607972	6.38E-06	1.46E-05	0.00079
0.136734	0.00479454	-0.00578073	6.20E-06	1.51E-05	0.00079
0.136441	0.00165319	-0.0054772	5.80E-06	1.37E-05	0.00079

0.151037	0.00625965	-0.00584514	6.46E-06	2.33E-05	0.00087
0.150734	0.00315642	-0.00564105	6.39E-06	2.45E-05	0.00087
0.150382	0.000175933	-0.00611934	5.53E-06	2.30E-05	0.00087
0.165022	0.00463679	-0.00578572	4.90E-06	3.32E-05	0.00092
0.164711	0.00151814	-0.00558433	4.96E-06	3.43E-05	0.00093
0.164368	-0.00151886	-0.00576821	4.31E-06	3.76E-05	0.00092
0.178997	0.00295479	-0.00551552	4.55E-06	4.49E-05	0.00094
0.178689	-0.000202205	-0.00501579	4.48E-06	4.68E-05	0.00094
0.178359	-0.00335241	-0.00461065	3.93E-06	4.86E-05	0.00094
0.192956	0.00132767	-0.00541986	3.39E-06	5.84E-05	0.00093
0.192653	-0.00203868	-0.00394201	3.32E-06	5.68E-05	0.00093
0.192325	-0.00511054	-0.00392928	2.93E-06	5.92E-05	0.00093
0.206908	-0.000475245	-0.00452526	5.31E-06	7.40E-05	0.00086
0.206564	-0.00362421	-0.00402336	6.43E-06	7.25E-05	0.00087
0.206237	-0.00680958	-0.00342138	6.93E-06	7.22E-05	0.00087
0.22084	-0.00241657	-0.00282442	1.15E-05	8.35E-05	0.00076
0.220485	-0.00550166	-0.00271768	1.28E-05	8.04E-05	0.00077
0.22015	-0.00839889	-0.00348579	1.27E-05	7.66E-05	0.00077
0.234752	-0.00404893	-0.00267562	1.66E-05	8.71E-05	0.00064
0.234396	-0.00701796	-0.00315767	1.85E-05	8.26E-05	0.00065
0.234049	-0.0101796	-0.00265283	1.90E-05	7.82E-05	0.00065
0.248643	-0.00562073	-0.00300707	2.15E-05	8.51E-05	0.00049
0.248276	-0.00891721	-0.00171906	2.39E-05	8.42E-05	0.00049
0.24793	-0.011982	-0.00160288	2.58E-05	7.99E-05	0.00049
0.262528	-0.00741184	-0.00203913	2.61E-05	8.33E-05	0.00032
0.262171	-0.0105156	-0.00173234	2.84E-05	8.58E-05	0.00032
0.261794	-0.0136322	-0.00142311	2.94E-05	8.47E-05	0.00032
0.27637	-0.00925738	-0.00086154	3.26E-05	8.14E-05	0.00014
0.276011	-0.0122252	-0.00113995	3.32E-05	8.51E-05	0.00014
0.275647	-0.0153241	-0.000928793	3.36E-05	8.63E-05	0.00014
0.290242	-0.0108004	-0.00113586	3.69E-05	7.13E-05	4.97E-05
0.289853	-0.0139762	-0.000436358	3.69E-05	7.40E-05	4.71E-05
0.28948	-0.0169976	-0.000516426	3.69E-05	7.40E-05	4.47E-05
0.304022	-0.0126633	0.000171972	4.45E-05	5.97E-05	0.00023
0.303655	-0.0157068	0.00028635	4.43E-05	6.01E-05	0.00023
0.303293	-0.0187471	0.000203173	4.42E-05	6.02E-05	0.00023
0.317805	-0.0144535	0.00120475	5.23E-05	4.68E-05	0.0004
0.317442	-0.0174758	0.00111952	5.23E-05	4.75E-05	0.0004
0.317061	-0.0204947	0.0010393	5.06E-05	4.78E-05	0.0004
0.331612	-0.0161117	0.0014648	5.51E-05	3.20E-05	0.00055
0.331196	-0.0192059	0.00187247	5.38E-05	3.29E-05	0.00055
0.330861	-0.0221353	0.00130225	5.17E-05	3.40E-05	0.00055
0.345331	-0.0178983	0.00252662	5.52E-05	1.67E-05	0.00067
0.344981	-0.0208645	0.0021471	5.46E-05	1.44E-05	0.00067
0.344632	-0.023831	0.00177291	5.25E-05	1.53E-05	0.00068
0.359032	-0.0197229	0.00369773	5.41E-05	7.39E-06	0.00077
0.358673	-0.0227064	0.00341629	5.32E-05	1.09E-05	0.00077
0.358315	-0.0256334	0.00294671	5.33E-05	1.48E-05	0.00077
0.372737	-0.0214524	0.00439193	5.03E-05	2.21E-05	0.00082
0.372338	-0.0245083	0.00450202	5.01E-05	2.12E-05	0.00082
0.371946	-0.0274891	0.00442765	5.03E-05	2.43E-05	0.00082
0.386476	-0.0230913	0.00461054	4.55E-05	3.67E-05	0.00083

0.385976	-0.0263102	0.00570213	4.27E-05	3.45E-05	0.00083
0.385626	-0.0292185	0.00513448	4.25E-05	3.29E-05	0.00082
0.400175	-0.0247473	0.00504078	3.70E-05	4.92E-05	0.00081
0.399636	-0.028019	0.00632313	3.19E-05	4.81E-05	0.0008
0.399296	-0.0309311	0.00585794	3.00E-05	4.84E-05	0.00079
0.413794	-0.0265296	0.00606691	3.07E-05	6.56E-05	0.00073
0.413252	-0.0297818	0.00725014	2.68E-05	6.66E-05	0.00072
0.41287	-0.0327267	0.0069788	2.57E-05	6.52E-05	0.00072
0.427456	-0.0282019	0.00651787	2.23E-05	7.65E-05	0.00061
0.426938	-0.0313831	0.00741	2.14E-05	7.47E-05	0.0006
0.426569	-0.0343501	0.00713614	2.12E-05	7.49E-05	0.0006
0.441035	-0.0299817	0.00756669	1.16E-05	7.93E-05	0.00046
0.440553	-0.0330713	0.00796783	1.16E-05	7.75E-05	0.00045
0.440118	-0.0361089	0.00818491	8.84E-06	7.80E-05	0.00045
0.454525	-0.0318087	0.00891538	1.18E-06	8.35E-05	0.00028
0.454165	-0.0347608	0.00853771	3.16E-06	8.21E-05	0.00028
0.453549	-0.0380039	0.0098208	6.43E-06	8.37E-05	0.00027
0.468103	-0.0335124	0.00959296	1.59E-05	8.29E-05	8.81E-05
0.46762	-0.0365844	0.00989427	1.57E-05	8.40E-05	8.90E-05
0.467201	-0.0395882	0.00991471	1.86E-05	8.54E-05	8.81E-05
0.481533	-0.0353506	0.0109546	3.36E-05	7.85E-05	0.00018
0.48111	-0.038356	0.0109688	3.37E-05	8.28E-05	0.00018
0.480746	-0.0412721	0.0104997	3.36E-05	8.47E-05	0.00018
0.495052	-0.0370671	0.0117464	4.87E-05	7.10E-05	0.00042
0.494524	-0.0401563	0.012243	4.91E-05	7.59E-05	0.00043
0.49421	-0.0430423	0.0115815	5.23E-05	7.86E-05	0.00043
0.50857	-0.0387443	0.0123498	5.93E-05	6.11E-05	0.00068
0.508085	-0.0417836	0.0125534	6.06E-05	6.23E-05	0.00068
0.507496	-0.0449418	0.0134447	6.60E-05	6.00E-05	0.00068
0.521873	-0.0406251	0.0140232	7.22E-05	5.77E-05	0.00088
0.521493	-0.0435453	0.0136478	7.20E-05	5.22E-05	0.00089
0.521036	-0.0465699	0.0137613	7.53E-05	4.69E-05	0.00087

#### Source File

Name: beam0lb\_30deg\_fast\_168.8Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 168.8 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0780807	0.0178588	-0.0112446	3.27E-05	2.52E-05	0.000425271
0.0910977	0.0162863	-0.0113467	3.75E-05	7.26E-05	0.000712724
0.0909522	0.0151186	-0.0118792	4.09E-05	8.89E-05	0.00072829
0.0779314	0.0164491	-0.0113396	3.08E-05	2.75E-05	0.000405276
0.0908001	0.0137578	-0.0120603	3.51E-05	9.58E-05	0.000742807

0.0777932	0.0156187	-0.0124842	3.05E-05	2.41E-05	0.000383246
0.0906413	0.0122047	-0.0118897	3.06E-05	0.000106442	0.000745422
0.0776312	0.0135341	-0.0113505	2.53E-05	2.34E-05	0.000392961
0.090476	0.0104601	-0.0113669	2.74E-05	0.000115937	0.000756977
0.0774957	0.0128473	-0.0127564	2.67E-05	2.21E-05	0.000406758
0.104143	0.01505	-0.0120624	4.03E-05	0.000175795	0.00102575
0.103958	0.0131115	-0.0111933	3.62E-05	0.000188481	0.0010512
0.103834	0.0123773	-0.0125132	3.32E-05	0.000194733	0.00105459
0.103644	0.0103446	-0.0114657	2.57E-05	0.000212041	0.00104644
0.103466	0.00855367	-0.0108545	2.91E-05	0.00021424	0.00104877
0.117152	0.0131868	-0.0116397	3.07E-05	0.000275196	0.00133343
0.116983	0.011683	-0.0115586	2.76E-05	0.000283438	0.00135738
0.116826	0.0103719	-0.0118268	2.06E-05	0.000287509	0.00136329
0.116638	0.00858133	-0.0112169	2.18E-05	0.000302947	0.00134794
0.1165	0.00755836	-0.0120089	3.01E-05	0.000305949	0.00137154
0.1302	0.0115129	-0.0115678	2.69E-05	0.000397537	0.00170633
0.130017	0.00991415	-0.0113112	2.25E-05	0.000411228	0.00173743
0.12985	0.00850794	-0.0114038	2.17E-05	0.000413764	0.00173685
0.129635	0.0065276	-0.0104426	2.02E-05	0.00040694	0.00171807
0.129515	0.00569646	-0.0115852	3.14E-05	0.000414014	0.00171873
0.14323	0.00988894	-0.0115831	2.40E-05	0.000523364	0.00206708
0.143067	0.00857867	-0.0118522	2.09E-05	0.000536568	0.00207734
0.142857	0.00678999	-0.0112434	2.07E-05	0.000533764	0.00207106
0.142699	0.00552825	-0.0115977	2.77E-05	0.00051323	0.00204318
0.156211	0.00770426	-0.0105379	2.36E-05	0.000644331	0.00238287
0.156087	0.00676152	-0.0115168	1.63E-05	0.000647356	0.00237215
0.1559	0.00526099	-0.0114339	1.50E-05	0.000633889	0.00235459
0.15574	0.00399948	-0.0117882	1.97E-05	0.000606676	0.00234593
0.169402	0.00712767	-0.0124804	2.83E-05	0.000713106	0.00259925
0.169146	0.00514946	-0.0115227	2.39E-05	0.000712012	0.00258939
0.168919	0.00339518	-0.0110103	2.08E-05	0.000707042	0.00258055
0.168763	0.0021819	-0.0114522	2.23E-05	0.000693514	0.00258028
0.169515	0.00800712	-0.0114215	3.45E-05	0.000717566	0.0026269
0.182596	0.00647216	-0.0116109	3.34E-05	0.000749551	0.00271559
0.18241	0.00506746	-0.0117061	2.97E-05	0.000751735	0.00272604
0.182182	0.0033773	-0.0112742	2.78E-05	0.00075217	0.00272282
0.182031	0.00221142	-0.0118051	2.63E-05	0.000748124	0.0027135
0.181808	0.000553997	-0.0114669	2.37E-05	0.000742165	0.002712
0.19569	0.00498335	-0.0118873	3.36E-05	0.00078413	0.0027575
0.195484	0.00348377	-0.0118076	3.25E-05	0.000774348	0.00275925
0.195286	0.00203228	-0.0118141	3.26E-05	0.000764742	0.00275638
0.195041	0.000296464	-0.0112932	3.17E-05	0.000752716	0.00274399
0.19485	-0.00110635	-0.0113846	3.00E-05	0.000750934	0.002743
0.208743	0.00322352	-0.0116287	3.72E-05	0.000778596	0.00272755
0.208556	0.00186725	-0.0118119	3.72E-05	0.000768637	0.00272209
0.208368	0.000494914	-0.0120029	3.70E-05	0.000746016	0.00270624
0.208079	-0.0014293	-0.0111318	3.83E-05	0.000742278	0.00269334
0.207926	-0.00259505	-0.0116618	3.68E-05	0.000744479	0.00269282
0.221795	0.00154378	-0.0115542	4.21E-05	0.000723962	0.00256208
0.221623	0.00028263	-0.0119128	3.96E-05	0.000713544	0.00255812

0.221303	-0.00173568	-0.0108686	4.02E-05	0.000695727	0.00254628
0.221147	-0.00291768	-0.0114087	4.31E-05	0.000681577	0.00253633
0.220985	-0.00413094	-0.0118514	4.41E-05	0.000704833	0.00255059
0.234901	2.12E-06	-0.011741	4.16E-05	0.000641559	0.00228498
0.234676	-0.0014955	-0.0116621	4.31E-05	0.000637442	0.0022869
0.234532	-0.00261487	-0.0122826	4.44E-05	0.00061624	0.00228117
0.234187	-0.0046776	-0.0111499	5.34E-05	0.000606009	0.00228426
0.233963	-0.00617323	-0.0110667	5.79E-05	0.000616885	0.00230727
0.247966	-0.00176196	-0.0114803	4.54E-05	0.000543063	0.00193606
0.247703	-0.00340034	-0.0111393	4.84E-05	0.000534545	0.00193643
0.247632	-0.00420625	-0.0123817	5.12E-05	0.000531753	0.00193872
0.247164	-0.00673752	-0.0103739	5.98E-05	0.00050985	0.00194758
0.24703	-0.00780931	-0.0110796	6.51E-05	0.000518465	0.00198175
0.261027	-0.00349427	-0.0113162	6.01E-05	0.000419083	0.00154505
0.260744	-0.00517875	-0.0108884	6.78E-05	0.000407201	0.00153706
0.260646	-0.00611037	-0.0118591	7.18E-05	0.000400825	0.00153844
0.26034	-0.00788754	-0.0112534	7.34E-05	0.00039351	0.00154548
0.260089	-0.00944533	-0.0110927	7.57E-05	0.000398597	0.00156747
0.274154	-0.00507404	-0.0114035	7.19E-05	0.000281032	0.00109293
0.273749	-0.00719633	-0.0101985	8.25E-05	0.000260848	0.00108967
0.273592	-0.00836274	-0.0107317	9.07E-05	0.000255483	0.00108883
0.2733	-0.0100443	-0.0103014	8.76E-05	0.000259601	0.00109191
0.273057	-0.0115378	-0.0102196	8.73E-05	0.000293961	0.00116481
0.287086	-0.00727723	-0.010365	8.91E-05	0.000143325	0.000604932
0.286916	-0.00849107	-0.0108124	9.20E-05	0.000124636	0.00059703
0.286601	-0.0102193	-0.0102971	9.74E-05	0.000118031	0.000596576
0.286535	-0.0110594	-0.0114419	8.33E-05	0.000120701	0.000596305
0.300158	-0.00906249	-0.010111	9.27E-05	1.86E-05	9.18E-05
0.300027	-0.0101364	-0.0108208	9.08E-05	2.76E-05	8.48E-05
0.299633	-0.0120969	-0.00986969	8.77E-05	3.84E-05	7.84E-05
0.299544	-0.0130311	-0.0108396	7.88E-05	3.10E-05	8.64E-05
0.300387	-0.0076451	-0.0100023	0.000101521	2.59E-05	1.11E-05
0.313456	-0.00943046	-0.00974795	0.000101518	0.000164792	0.000430314
0.31334	-0.0104583	-0.0105463	9.82E-05	0.000168076	0.000429167
0.313195	-0.0115799	-0.0111694	9.27E-05	0.000171814	0.000433606
0.312803	-0.0134925	-0.0103071	9.08E-05	0.000164686	0.000426538
0.312585	-0.0148461	-0.0104912	8.36E-05	0.000155875	0.000415658
0.326629	-0.0108735	-0.010095	0.000102984	0.000294867	0.000915653
0.326223	-0.0127861	-0.00923714	0.00010719	0.000297304	0.000914837
0.32603	-0.0140631	-0.00960748	0.00010782	0.000303545	0.000915696
0.325901	-0.0151384	-0.0103168	9.96E-05	0.000303408	0.00091493
0.325557	-0.0168626	-0.00980323	0.000101735	0.000276233	0.000875507
0.339645	-0.012799	-0.0095796	9.74E-05	0.000409744	0.0013518
0.339323	-0.0144316	-0.00924593	0.000104622	0.000416932	0.00135522
0.339114	-0.015739	-0.0095208	0.000104529	0.00042985	0.00136353
0.338953	-0.0169077	-0.0100562	9.98E-05	0.000433449	0.00136185
0.352759	-0.0144791	-0.00948936	9.35E-05	0.000505579	0.00174328
0.352462	-0.0160186	-0.00933109	9.59E-05	0.000514555	0.00174323
0.352283	-0.0172341	-0.009781	9.70E-05	0.000520224	0.00174275
0.351886	-0.0190492	-0.00909729	9.71E-05	0.00050637	0.00173188

0.353207	-0.0125216	-0.010429	8.80E-05	0.000512998	0.00181263
0.366053	-0.0149604	-0.0089554	8.62E-05	0.000572165	0.00205592
0.365925	-0.0160381	-0.00966902	8.77E-05	0.00057731	0.00205415
0.365569	-0.0177157	-0.00925112	8.65E-05	0.000586785	0.00205227
0.365318	-0.019116	-0.00935364	9.02E-05	0.000590298	0.00204889
0.365087	-0.0204536	-0.00953296	9.21E-05	0.000575135	0.00204054
0.379284	-0.0163656	-0.00938544	8.03E-05	0.00062513	0.00228113
0.378717	-0.0185495	-0.008015	8.03E-05	0.000624448	0.00227992
0.378553	-0.0197196	-0.00855391	7.94E-05	0.000626256	0.00227721
0.378627	-0.0202932	-0.0102221	8.17E-05	0.000628893	0.00227763
0.377841	-0.0230233	-0.00780264	8.64E-05	0.000622519	0.00227015
0.392337	-0.0182004	-0.00904503	7.57E-05	0.000635459	0.00239456
0.391736	-0.0204114	-0.0075812	7.46E-05	0.000631842	0.00239056
0.391686	-0.0213072	-0.00864157	7.38E-05	0.000625625	0.00238749
0.391406	-0.0227531	-0.00865925	7.78E-05	0.000624741	0.00238359
0.39107	-0.0243357	-0.00841494	8.10E-05	0.000625789	0.00237921
0.405313	-0.0202519	-0.00826062	6.32E-05	0.000610162	0.00238181
0.404969	-0.0218359	-0.00802203	6.19E-05	0.000608943	0.00238346
0.404726	-0.0231743	-0.00820649	6.18E-05	0.000596897	0.00238126
0.404462	-0.0245744	-0.00831207	6.36E-05	0.0006006	0.00237933
0.405518	-0.0189882	-0.00789133	6.15E-05	0.000608775	0.00237498
0.418638	-0.0206697	-0.00780227	5.38E-05	0.000542315	0.00224558
0.418287	-0.0222538	-0.00756661	4.80E-05	0.000541106	0.00224428
0.417957	-0.0237914	-0.007416	4.62E-05	0.000549109	0.00225264
0.417996	-0.0245086	-0.00882328	4.72E-05	0.000550142	0.00225491
0.417626	-0.0261205	-0.00848801	5.10E-05	0.000558428	0.00225552
0.431852	-0.0221871	-0.00806802	4.89E-05	0.000473628	0.00202802
0.43124	-0.024301	-0.00678759	3.48E-05	0.000465365	0.00201934
0.431009	-0.0256107	-0.0070708	3.13E-05	0.000466445	0.00202067
0.430756	-0.0269657	-0.00726636	3.47E-05	0.000457419	0.00201921
0.43057	-0.0281681	-0.00771139	3.78E-05	0.000452713	0.00201444
0.445128	-0.0236004	-0.00849638	4.14E-05	0.000361032	0.00168821
0.444409	-0.0259105	-0.00688288	1.90E-05	0.000365208	0.00167629
0.444155	-0.0272499	-0.00707184	1.73E-05	0.00036689	0.00167649
0.443943	-0.028515	-0.00744157	2.36E-05	0.000370617	0.00168295
0.4436	-0.0300348	-0.00728243	2.21E-05	0.000365961	0.00173046
0.457633	-0.0265539	-0.00599484	1.45E-05	0.000231823	0.00124921
0.457442	-0.0277744	-0.00645389	3.76E-06	0.000229869	0.00123111
0.457184	-0.029114	-0.00664404	1.24E-06	0.000241652	0.00123224
0.457014	-0.0302895	-0.00718738	9.47E-06	0.000259447	0.00125506
0.471027	-0.0277412	-0.00685728	9.29E-06	8.85E-05	0.000725851
0.470458	-0.0296845	-0.00593965	2.73E-05	8.26E-05	0.000719752
0.47015	-0.0311144	-0.00595867	2.30E-05	8.64E-05	0.000729265
0.469745	-0.0327401	-0.00564067	1.93E-05	9.32E-05	0.000746272
0.471406	-0.0261741	-0.00709346	1.09E-05	8.73E-05	0.000646283
0.484288	-0.028354	-0.00606297	1.66E-05	9.88E-05	0.000117295
0.483779	-0.0301617	-0.00540768	3.58E-05	0.000131051	0.000107941
0.483683	-0.0311879	-0.00620363	4.12E-05	0.000155592	0.000106245
0.483296	-0.0327529	-0.00596632	3.66E-05	0.000149629	0.000125881
0.483028	-0.0341096	-0.00616703	3.43E-05	0.000148545	0.000135562

0.497345	-0.0302192	-0.00563562	4.25E-05	0.000274913	0.000543292
0.49685	-0.0319809	-0.00506878	5.65E-05	0.000312157	0.000556535
0.496556	-0.0333667	-0.00517814	5.72E-05	0.000317485	0.000552882
0.496137	-0.0349756	-0.00485663	5.57E-05	0.000310643	0.000542986
0.495965	-0.0361538	-0.00540227	6.58E-05	0.000341685	0.000516348
0.510197	-0.0324079	-0.00462479	7.59E-05	0.000494797	0.00125763
0.509796	-0.0339731	-0.00439402	7.48E-05	0.000488148	0.00124584
0.509549	-0.0352699	-0.00467634	7.13E-05	0.000457566	0.00123035
0.509352	-0.0364775	-0.00512918	7.43E-05	0.000463043	0.00121296
0.523002	-0.0346688	-0.00343635	9.24E-05	0.000649193	0.00195728
0.522778	-0.0359217	-0.00380659	9.52E-05	0.000653089	0.0019602
0.522791	-0.0367747	-0.00494651	8.77E-05	0.000631814	0.00194427
0.522172	-0.0386938	-0.00403002	9.03E-05	0.000615874	0.00191441
0.531909	-0.0395824	-0.00462163	9.47E-05	0.000729891	0.00238454
0.531276	-0.040822	-0.00370793	0.000110417	0.000709694	0.00232897
0.521895	-0.0398137	-0.00387748	0.000110257	0.000616401	0.00187776
0.532296	-0.0385656	-0.00385705	9.72E-05	0.000724219	0.00241846
0.533094	-0.0368355	-0.00446316	0.000100783	0.000769186	0.00244822
0.533562	-0.0356856	-0.00395281	9.96E-05	0.000781251	0.00246623
0.534135	-0.0343745	-0.00379234	8.54E-05	0.000742583	0.00246846
0.5237	-0.0326128	-0.0046046	7.23E-05	0.000595408	0.00204646
0.523706	-0.0325632	-0.004577	6.21E-05	0.000580157	0.00206013
0.534324	-0.0339603	-0.00398522	7.60E-05	0.000724589	0.00244063
0.508626	-0.0385531	-0.00374213	0.000103713	0.000490276	0.0013001
0.521599	-0.0322847	-0.00472854	5.98E-05	0.000506901	0.0017782
0.51055	-0.0310847	-0.00487862	5.68E-05	0.000399562	0.00120657
0.505404	-0.0380082	-0.00418371	9.13E-05	0.000440173	0.000869844
0.495727	-0.0366883	-0.00481783	6.75E-05	0.000338815	0.000501933
0.497395	-0.0296045	-0.00518309	3.09E-05	0.000197657	0.000496944
0.482591	-0.0352705	-0.00503491	3.62E-05	0.000133835	0.00015069
0.484357	-0.0279137	-0.00592912	3.74E-06	5.33E-05	0.000159333
0.469553	-0.0336231	-0.00568898	2.09E-05	0.000101715	0.000757821
0.47154	-0.0258	-0.00744138	1.69E-05	8.28E-05	0.000622976
0.456364	-0.0322918	-0.00573951	3.48E-06	0.000260472	0.00124803
0.463088	-0.0256663	-0.00616723	2.34E-05	0.000139089	0.000852383
0.458221	-0.0246325	-0.00714995	2.83E-05	0.000240966	0.00125512
0.448651	-0.030935	-0.00680739	1.22E-05	0.000328822	0.00156788
0.443523	-0.0302688	-0.00707735	2.18E-05	0.000367587	0.00173763
0.445079	-0.0231501	-0.00746064	4.50E-05	0.000378015	0.00169057
0.43038	-0.0288461	-0.00730432	4.02E-05	0.000457346	0.00201378
0.431929	-0.0216656	-0.00777381	5.12E-05	0.000493244	0.00202798
0.417473	-0.0269252	-0.00848471	5.34E-05	0.000568386	0.00225604
0.418791	-0.0201331	-0.00817575	5.39E-05	0.000561909	0.00224304
0.404284	-0.025592	-0.00854149	6.54E-05	0.000605314	0.00237892
0.405539	-0.018926	-0.00796886	5.99E-05	0.000610657	0.0023672
0.391497	-0.0246589	-0.00791597	7.80E-05	0.000619816	0.00239636
0.391051	-0.0243815	-0.00832806	8.52E-05	0.000628276	0.00236906
0.404863	-0.0185202	-0.00860102	6.49E-05	0.000627599	0.00239865
0.39259	-0.0169819	-0.00915046	7.54E-05	0.000631132	0.00238413
0.377885	-0.0230523	-0.00838357	9.15E-05	0.000623642	0.00225931

0.379319	-0.0158203	-0.008858	8.44E-05	0.000613936	0.00227105
0.364727	-0.0217248	-0.00843875	0.00010184	0.000570189	0.00203086
0.366115	-0.0145223	-0.00882482	8.90E-05	0.000558126	0.00204728
0.351712	-0.0200137	-0.00918191	0.000104145	0.000501497	0.00172521
0.353104	-0.0127156	-0.00974766	8.99E-05	0.00050644	0.0018216
0.33856	-0.0186878	-0.00923725	0.000103467	0.000445247	0.0014191
0.346316	-0.0121444	-0.00959224	8.84E-05	0.000475203	0.00168026
0.33997	-0.0112331	-0.0100621	9.03E-05	0.00039484	0.00134794
0.33458	-0.0179328	-0.00990796	0.00010598	0.000348708	0.00112459
0.325414	-0.0174123	-0.00920342	0.000102835	0.000256402	0.000859461
0.326823	-0.00984698	-0.0102005	9.54E-05	0.000280714	0.000912351
0.312415	-0.0156081	-0.0101231	8.77E-05	0.000128571	0.000398462
0.313672	-0.00842799	-0.0104363	0.000100586	0.000154342	0.000426616
0.299488	-0.0135891	-0.0114886	7.48E-05	2.16E-05	9.16E-05
0.30047	-0.00721362	-0.010216	0.000102465	3.06E-05	1.03E-05
0.286244	-0.012673	-0.0107456	7.86E-05	0.000135616	0.000577068
0.287942	-0.00543322	-0.0111928	0.000100777	4.52E-05	0.000198924
0.287388	-0.00559416	-0.0107899	9.48E-05	0.000145157	0.000585063
0.277539	-0.0116661	-0.0110234	8.39E-05	0.000246309	0.000940008
0.275251	-0.0115871	-0.0107361	8.61E-05	0.000271899	0.00103926
0.273044	-0.0115535	-0.010344	8.68E-05	0.000315277	0.00119086
0.274304	-0.00399095	-0.0112572	6.87E-05	0.000316893	0.00118172
0.27769	-0.00478328	-0.0105156	8.42E-05	0.000247505	0.000932941
0.25999	-0.00993588	-0.0105689	7.51E-05	0.000428859	0.00157332
0.261181	-0.00251138	-0.0112235	5.87E-05	0.00042638	0.00155342
0.246959	-0.00817704	-0.0110571	6.25E-05	0.000541438	0.00198707
0.248183	-0.000464691	-0.012239	4.59E-05	0.00054483	0.00194554
0.233911	-0.00651371	-0.0113696	5.32E-05	0.000641994	0.00231351
0.234977	0.000634641	-0.0115042	4.41E-05	0.000642267	0.00228417
0.220893	-0.00471047	-0.0119447	4.05E-05	0.000710457	0.00255334
0.22182	0.00187254	-0.0110305	4.31E-05	0.00072455	0.00256861
0.207798	-0.00343019	-0.0115543	3.51E-05	0.000745335	0.00269349
0.208751	0.00340685	-0.0110715	3.70E-05	0.00078142	0.00273903
0.194769	-0.00170776	-0.0119446	2.96E-05	0.00075139	0.00274191
0.195745	0.00540251	-0.011997	3.08E-05	0.000782201	0.00276588
0.181659	-0.000524304	-0.0113784	2.41E-05	0.000739462	0.00270683
0.182635	0.00677785	-0.0117836	3.15E-05	0.000739787	0.00271375
0.168586	0.00084674	-0.0111628	2.25E-05	0.000687634	0.00257175
0.169508	0.00796011	-0.0112193	3.43E-05	0.000708181	0.00262821
0.155576	0.00270871	-0.0118158	2.86E-05	0.000594733	0.00233405
0.16288	0.00942261	-0.0124769	3.63E-05	0.000691118	0.00256216
0.156514	0.0102112	-0.0125723	3.41E-05	0.000634083	0.00237615
0.142593	0.00479134	-0.0129163	4.03E-05	0.000526609	0.00210031
0.143428	0.0115815	-0.0123573	3.20E-05	0.000515646	0.00205664
0.142429	0.00480917	-0.0129153	4.10E-05	0.000469991	0.00191287
0.12948	0.0055369	-0.0115597	3.22E-05	0.000396988	0.00170556
0.130321	0.0126621	-0.0116165	3.13E-05	0.000391069	0.00169101
0.116486	0.00749079	-0.0123882	3.24E-05	0.00027261	0.00135646
0.117275	0.0142373	-0.0117425	3.62E-05	0.000268907	0.00133331
0.103432	0.00827687	-0.0111208	2.71E-05	0.000175471	0.00105153

0.104206	0.0155068	-0.011352	3.88E-05	0.000165564	0.00101579
0.0904122	0.0095573	-0.0107223	2.85E-05	9.25E-05	0.0007605
0.0911713	0.0172091	-0.0117497	3.85E-05	6.03E-05	0.000701887
0.077404	0.0115906	-0.011736	3.28E-05	1.75E-05	0.000421796
0.078128	0.0182007	-0.0108264	3.18E-05	2.35E-05	0.000442355
0.068584	0.0125329	-0.0101419	2.25E-05	3.02E-05	0.000241999
0.0684519	0.0129494	-0.0123099	3.17E-05	3.16E-05	0.000254302
0.0688784	0.0144913	-0.0111174	2.10E-05	3.70E-05	0.000231692
0.0691504	0.0156963	-0.0106802	2.68E-05	4.76E-05	0.000224201
0.0694463	0.0175284	-0.0113805	3.20E-05	4.61E-05	0.000229907
0.0697204	0.0189276	-0.0112908	3.23E-05	4.06E-05	0.000256187
0.0698224	0.0198781	-0.0121356	3.42E-05	3.63E-05	0.000269626

#### Source File

Name: beam0lb\_45deg\_fast\_60.63Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 60.63 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0622235	0.0193966	-0.0081903	4.20E-05	0.000102849	4.47E-05
0.062097	0.0180518	-0.0083055	1.63E-05	4.30E-05	2.63E-05
0.0620045	0.0166294	-0.00823762	2.19E-06	3.32E-06	1.21E-05
0.0618559	0.015464	-0.00870844	2.10E-06	7.82E-06	9.42E-06
0.0618698	0.0135845	-0.00753341	2.49E-06	1.45E-05	3.36E-06
0.0617082	0.0124314	-0.00810393	2.37E-05	5.80E-05	3.42E-05
0.0615968	0.0110874	-0.00821371	5.38E-05	0.000128477	4.59E-05
0.0743432	0.0179062	-0.00876108	1.93E-05	3.43E-05	1.33E-05
0.074274	0.0163829	-0.00841235	5.92E-06	7.22E-06	2.28E-05
0.0742051	0.0148606	-0.00806188	2.57E-06	7.53E-06	2.51E-05
0.0740213	0.013748	-0.00872467	2.49E-06	9.55E-06	2.38E-05
0.0739694	0.0121375	-0.00819241	2.91E-06	1.19E-05	2.11E-05
0.0738815	0.0106807	-0.00802633	5.66E-06	1.18E-05	2.75E-05
0.0737362	0.00942889	-0.00831182	2.19E-05	5.29E-05	3.64E-05
0.086535	0.0161925	-0.00876564	3.60E-05	8.04E-05	8.10E-06
0.0864448	0.0146965	-0.00851247	1.69E-05	3.06E-05	1.90E-05
0.0863003	0.0134452	-0.0088028	1.01E-06	3.07E-06	3.14E-05
0.0862073	0.0120018	-0.00863319	2.88E-06	6.80E-06	3.21E-05
0.0861292	0.0104699	-0.00828307	3.86E-06	8.25E-06	2.77E-05
0.0860131	0.00905412	-0.00820593	5.41E-06	9.52E-06	2.76E-05
0.0986895	0.0146662	-0.00921804	1.52E-05	3.30E-05	3.84E-05
0.0985887	0.0131347	-0.0088698	9.75E-07	2.15E-06	4.59E-05

0.0985037	0.0116163	-0.008516	4.65E-07	4.84E-06	4.64E-05
0.0983889	0.0101631	-0.00834858	7.90E-07	2.39E-06	4.26E-05
0.0982449	0.00893742	-0.00873439	2.34E-06	4.47E-06	4.61E-05
0.0981154	0.00763569	-0.00893448	3.21E-06	6.91E-06	4.89E-05
0.111004	0.0142461	-0.00899009	7.50E-07	8.08E-07	6.03E-05
0.11089	0.0128296	-0.00891992	4.02E-07	2.73E-06	5.97E-05
0.110699	0.0117966	-0.00976891	3.16E-07	2.43E-06	6.25E-05
0.110619	0.0102032	-0.00922938	1.40E-06	4.41E-06	6.21E-05
0.110472	0.00896476	-0.00962145	4.31E-07	2.00E-06	6.14E-05
0.110351	0.00751302	-0.00945161	1.06E-06	2.92E-07	6.39E-05
0.11025	0.00602306	-0.0091892	7.71E-07	5.76E-06	7.16E-05
0.123142	0.0128622	-0.00978694	5.22E-07	2.28E-06	7.91E-05
0.123069	0.01109	-0.00889076	1.26E-06	1.93E-06	7.96E-05
0.122877	0.0100959	-0.00983193	6.34E-07	4.41E-06	8.59E-05
0.122754	0.0087325	-0.00984483	1.10E-06	1.28E-06	8.98E-05
0.122624	0.00739424	-0.00995395	3.41E-06	5.34E-06	8.45E-05
0.122497	0.00594402	-0.00978307	4.31E-06	5.23E-06	8.76E-05
0.12242	0.0042161	-0.00896998	4.41E-06	3.63E-06	9.30E-05
0.135316	0.0113057	-0.0102085	1.10E-06	3.43E-06	0.000110511
0.13519	0.00977845	-0.00985823	4.25E-07	4.56E-06	0.000108835
0.135083	0.00821303	-0.00941495	2.60E-06	4.29E-06	0.000111916
0.134978	0.00666208	-0.00896451	2.39E-08	2.99E-06	0.000109238
0.134798	0.00557883	-0.00972377	2.15E-06	3.93E-06	0.00010358
0.134683	0.00409159	-0.00946041	1.95E-06	1.48E-06	0.00010398
0.134541	0.00271947	-0.00947178	1.53E-06	4.25E-06	0.000108634
0.147482	0.00972053	-0.0105177	2.81E-06	4.30E-06	0.000129821
0.14739	0.00788974	-0.00942795	1.37E-06	2.81E-06	0.000126856
0.147241	0.00665445	-0.00982082	1.99E-06	4.08E-06	0.000129439
0.147092	0.00533313	-0.00992321	7.51E-07	4.81E-06	0.000128407
0.146944	0.00411068	-0.0103082	8.23E-07	4.08E-06	0.000128248
0.146841	0.00238575	-0.00949368	3.43E-07	4.62E-06	0.000125863
0.159686	0.00778724	-0.0099821	2.46E-06	3.73E-06	0.000152831
0.159525	0.00670377	-0.0107461	2.41E-06	3.79E-06	0.000150456
0.159389	0.00529242	-0.0106708	1.28E-06	4.09E-06	0.000144144
0.159244	0.00385851	-0.0104951	1.05E-06	6.62E-06	0.000146426
0.159123	0.00220966	-0.0098662	8.00E-07	6.93E-06	0.000156336
0.158961	0.00117587	-0.0107125	1.10E-06	6.35E-06	0.000164706
0.171855	0.00625361	-0.0104549	1.98E-06	6.18E-06	0.000181114
0.171719	0.00473009	-0.0101025	2.38E-06	4.97E-06	0.000170746
0.171559	0.00368435	-0.0109576	2.25E-06	5.01E-06	0.000160985
0.171418	0.00202616	-0.0102253	1.86E-06	6.44E-06	0.000155669
0.171258	0.00103023	-0.0111655	1.93E-06	5.28E-06	0.000166869
0.171131	-0.000728439	-0.0102557	1.80E-06	4.40E-06	0.000179192
0.184194	0.00617328	-0.0110758	2.36E-06	8.40E-06	0.000193689
0.184038	0.00450049	-0.0103532	2.52E-06	6.09E-06	0.000193187
0.183885	0.00334212	-0.0109315	2.92E-06	6.00E-06	0.000191245
0.18374	0.00190884	-0.0107567	2.63E-06	7.12E-06	0.000186617

0.183578	0.000488998	-0.0106829	2.86E-06	7.34E-06	0.000180871
0.18343	-0.000843793	-0.0107885	2.68E-06	6.13E-06	0.000183237
0.183278	-0.00195252	-0.0114492	2.59E-06	4.96E-06	0.000185007
0.196373	0.00441439	-0.0109601	4.36E-06	8.24E-06	0.000202002
0.19622	0.00310543	-0.011169	3.77E-06	6.28E-06	0.000201187
0.196068	0.00188476	-0.0115566	3.74E-06	6.75E-06	0.00020143
0.195902	0.000403128	-0.0112934	2.70E-06	7.57E-06	0.000199092
0.195749	-0.00111645	-0.0109363	2.79E-06	7.25E-06	0.000200378
0.195596	-0.00246163	-0.0110466	3.17E-06	5.73E-06	0.000201662
0.19543	-0.00401505	-0.0105927	3.03E-06	5.63E-06	0.000200407
0.208577	0.00298711	-0.0116645	5.77E-06	8.47E-06	0.000226315
0.208394	0.00126712	-0.0108532	4.76E-06	7.65E-06	0.000230374
0.208237	-7.81E-05	-0.0109675	3.95E-06	8.83E-06	0.000229584
0.208082	-0.0014342	-0.0109769	2.97E-06	9.03E-06	0.000225251
0.207914	-0.00266552	-0.0113662	3.10E-06	7.99E-06	0.000214088
0.207766	-0.00377408	-0.0120279	3.22E-06	6.94E-06	0.00021141
0.22074	0.00101726	-0.0110619	4.85E-06	7.48E-06	0.00023643
0.220593	-9.02E-05	-0.0117283	4.33E-06	7.70E-06	0.000235805
0.22042	-0.00165932	-0.0112859	4.64E-06	8.71E-06	0.000239938
0.220261	-0.00272848	-0.0120423	4.60E-06	9.80E-06	0.000239129
0.220087	-0.00432016	-0.0114986	4.45E-06	9.80E-06	0.000230656
0.219905	-0.00581072	-0.0112364	4.10E-06	8.30E-06	0.000220104
0.232923	-0.000645128	-0.0111809	5.08E-06	8.10E-06	0.000252729
0.232761	-0.00195222	-0.0113888	5.07E-06	8.79E-06	0.000251667
0.232601	-0.00324611	-0.01159	5.48E-06	9.27E-06	0.000252752
0.232422	-0.00461246	-0.0116039	5.66E-06	1.05E-05	0.000258886
0.232233	-0.00625229	-0.0109719	5.53E-06	1.00E-05	0.00025572
0.232086	-0.007211	-0.0120044	4.96E-06	8.93E-06	0.000248482
0.245142	-0.0018027	-0.0125888	6.20E-06	9.14E-06	0.000273754
0.244944	-0.00343188	-0.0119568	6.12E-06	1.00E-05	0.000278721
0.244748	-0.00503547	-0.0114209	6.20E-06	1.04E-05	0.000274977
0.244615	-0.00592014	-0.0126414	6.32E-06	1.04E-05	0.000269013
0.244425	-0.00747241	-0.0121898	5.75E-06	1.05E-05	0.00027736
0.244219	-0.00903478	-0.0117416	5.54E-06	9.25E-06	0.000278459
0.257425	-0.00285433	-0.0108065	6.51E-06	8.76E-06	0.000270586
0.257309	-0.00366299	-0.0122154	6.50E-06	9.12E-06	0.000274351
0.257123	-0.00511826	-0.0120522	6.71E-06	1.04E-05	0.000284436
0.256947	-0.00648573	-0.0120675	6.72E-06	1.06E-05	0.000287144
0.256758	-0.007851	-0.0120814	6.56E-06	1.11E-05	0.000283077
0.256523	-0.00967189	-0.0109846	6.14E-06	1.05E-05	0.000282185
0.256377	-0.010817	-0.0115525	5.86E-06	1.04E-05	0.000283603
0.269673	-0.00408782	-0.0119945	6.07E-06	1.08E-05	0.000274628
0.269489	-0.00539289	-0.0122037	6.48E-06	1.04E-05	0.000270673
0.269326	-0.00664968	-0.0124988	6.97E-06	1.01E-05	0.00026805
0.269137	-0.0079915	-0.0126125	7.22E-06	1.06E-05	0.000270201
0.26891	-0.00965222	-0.0118837	7.16E-06	1.12E-05	0.000280747
0.268754	-0.0108715	-0.0122674	7.05E-06	1.14E-05	0.000282837

0.268576	-0.012139	-0.0125623	6.83E-06	1.11E-05	0.000281819
0.281848	-0.0057849	-0.0120611	6.53E-06	1.45E-05	0.00029112
0.28169	-0.00700478	-0.0124502	6.87E-06	1.35E-05	0.00028812
0.281436	-0.00867735	-0.0117307	7.26E-06	1.29E-05	0.000276209
0.281292	-0.00982339	-0.0123025	7.19E-06	1.08E-05	0.000269979
0.28106	-0.0114456	-0.0116665	7.19E-06	1.04E-05	0.000275131
0.280934	-0.0124206	-0.0127056	7.25E-06	1.06E-05	0.000275776
0.294065	-0.00730404	-0.0125766	7.80E-06	1.21E-05	0.000292773
0.293891	-0.00859797	-0.0127805	7.89E-06	1.19E-05	0.000290295
0.293703	-0.00988991	-0.0129834	7.77E-06	1.39E-05	0.000286511
0.293529	-0.0111837	-0.0131845	7.77E-06	1.31E-05	0.000278608
0.293288	-0.0127306	-0.0127351	7.70E-06	1.09E-05	0.00026919
0.293013	-0.0145094	-0.0117316	7.52E-06	1.03E-05	0.000254201
0.306293	-0.00877915	-0.0131651	8.85E-06	1.01E-05	0.000283408
0.306055	-0.0103428	-0.0127259	8.63E-06	1.02E-05	0.000280257
0.305873	-0.0115981	-0.0130217	8.56E-06	1.39E-05	0.000277986
0.305654	-0.0130606	-0.0127539	8.92E-06	1.40E-05	0.000286296
0.305424	-0.0145849	-0.0124022	8.67E-06	1.20E-05	0.000285069
0.305165	-0.0161653	-0.0118583	8.24E-06	1.24E-05	0.000272823
0.318576	-0.00951651	-0.0121442	9.03E-06	1.03E-05	0.000277261
0.318414	-0.0107504	-0.0125402	8.90E-06	9.65E-06	0.000279252
0.318268	-0.0118602	-0.0132081	8.68E-06	9.02E-06	0.000278863
0.318058	-0.0132766	-0.0131383	8.90E-06	1.19E-05	0.000271119
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0.317487	-0.0166086	-0.0115874	9.45E-06	1.20E-05	0.000285055
0.317458	-0.0173365	-0.0132752	9.07E-06	1.33E-05	0.000283387
0.330816	-0.0110168	-0.0127089	8.78E-06	1.05E-05	0.000253414
0.330672	-0.0121274	-0.0133783	8.81E-06	9.63E-06	0.000257332
0.330405	-0.0137256	-0.0128475	8.87E-06	9.02E-06	0.000264877
0.330232	-0.0149835	-0.0131431	8.89E-06	1.10E-05	0.000260129
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0.34274	-0.0142154	-0.0124487	8.91E-06	9.98E-06	0.000230744
0.342597	-0.0153268	-0.0131169	8.84E-06	8.53E-06	0.00023525
0.342285	-0.017031	-0.0123071	9.26E-06	1.06E-05	0.000235679
0.342204	-0.0179877	-0.0133369	9.29E-06	1.14E-05	0.00023048
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0.355184	-0.0143459	-0.01296	9.24E-06	1.22E-05	0.000226352
0.354995	-0.0156544	-0.0131718	9.21E-06	1.20E-05	0.000227023
0.354657	-0.0173431	-0.0123605	9.02E-06	1.00E-05	0.000211707
0.354543	-0.0184219	-0.013119	9.01E-06	9.68E-06	0.000212243
0.354184	-0.0202045	-0.0120201	9.34E-06	1.06E-05	0.000211789
0.354227	-0.0207813	-0.0140734	8.75E-06	1.05E-05	0.00021715
0.367378	-0.0160076	-0.0131138	1.02E-05	1.08E-05	0.000205643
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0.378549	-0.0234109	-0.012594	1.10E-05	9.70E-06	0.000182227
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0.390777	-0.0248909	-0.0131833	1.02E-05	1.18E-05	0.000162242
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0.403088	-0.0262145	-0.0142268	9.50E-06	9.92E-06	0.000130985
0.416281	-0.0214586	-0.0132042	9.87E-06	4.25E-06	7.31E-05
0.416116	-0.0226489	-0.0136925	1.00E-05	3.70E-06	8.12E-05
0.415846	-0.0240889	-0.0135337	1.05E-05	5.05E-06	8.45E-05
0.415527	-0.0256203	-0.0130916	1.10E-05	5.18E-06	8.36E-05
0.415296	-0.0269376	-0.013202	1.05E-05	6.73E-06	8.26E-05
0.414942	-0.0285501	-0.0125775	9.72E-06	8.38E-06	8.20E-05
0.428451	-0.0231402	-0.0132976	1.04E-05	6.06E-06	3.05E-05
0.428228	-0.0244751	-0.0134171	1.02E-05	5.55E-06	4.19E-05
0.427918	-0.0259719	-0.01307	1.06E-05	4.19E-06	5.00E-05
0.427645	-0.0273734	-0.0130042	1.07E-05	3.94E-06	4.98E-05
0.42737	-0.0287984	-0.0128378	1.07E-05	5.29E-06	5.14E-05
0.427224	-0.0299415	-0.0134078	9.50E-06	8.62E-06	5.11E-05
0.440804	-0.0235984	-0.0129808	1.13E-05	6.65E-06	6.03E-06
0.440583	-0.0248966	-0.0131961	1.10E-05	6.72E-06	7.54E-06
0.440283	-0.0263589	-0.0129439	1.09E-05	6.68E-06	1.26E-05
0.440038	-0.0277288	-0.0129708	1.08E-05	5.94E-06	1.30E-05
0.439799	-0.0290477	-0.0130845	1.10E-05	3.70E-06	1.29E-05
0.439648	-0.0302298	-0.0135627	1.02E-05	3.40E-06	1.48E-05
0.439422	-0.0315509	-0.0136719	1.00E-05	4.92E-06	1.49E-05
0.452923	-0.0253555	-0.0128697	1.12E-05	5.15E-06	3.29E-05
0.45285	-0.0264127	-0.0137254	1.10E-05	5.11E-06	2.99E-05
0.45266	-0.0276668	-0.0140248	1.05E-05	5.09E-06	3.05E-05
0.452319	-0.0291615	-0.013683	1.04E-05	4.23E-06	3.06E-05

0.451932	-0.0307749	-0.0130675	1.04E-05	2.67E-06	3.09E-05
0.451627	-0.0322218	-0.0128065	1.06E-05	2.37E-06	2.90E-05
0.451616	-0.0331401	-0.0140255	1.06E-05	2.89E-06	2.83E-05
0.465138	-0.0269801	-0.0131119	1.20E-05	3.31E-06	7.83E-05
0.46483	-0.0284061	-0.0129578	1.21E-05	4.59E-06	7.47E-05
0.464576	-0.029778	-0.0129884	1.16E-05	4.28E-06	7.19E-05
0.464343	-0.0311016	-0.0131038	1.02E-05	2.36E-06	7.21E-05
0.464097	-0.0324222	-0.0132198	1.03E-05	1.31E-06	7.20E-05
0.463988	-0.0335256	-0.0138769	1.03E-05	1.77E-06	7.13E-05
0.463576	-0.035134	-0.0132622	1.09E-05	2.91E-06	7.04E-05
0.477205	-0.0288131	-0.0127989	1.19E-05	1.51E-06	0.000120204
0.476927	-0.0302074	-0.0127354	1.20E-05	1.24E-06	0.000113154
0.476591	-0.0316674	-0.0124897	1.13E-05	1.80E-06	0.000114413
0.476461	-0.0328196	-0.0130632	9.95E-06	1.25E-06	0.000112014
0.476287	-0.0340543	-0.0134581	9.41E-06	2.11E-06	0.000108144
0.475889	-0.035602	-0.012928	9.91E-06	3.11E-06	9.88E-05
0.48945	-0.0303742	-0.013206	1.16E-05	5.29E-06	0.000174652
0.489263	-0.0315951	-0.0136026	1.06E-05	2.80E-06	0.000153293
0.488956	-0.0330246	-0.0134481	9.61E-06	1.43E-06	0.000151305
0.48876	-0.0342823	-0.0137484	8.93E-06	6.58E-07	0.000158397
0.488107	-0.0362198	-0.012223	8.94E-06	2.90E-06	0.000154712
0.488112	-0.0371563	-0.0133372	9.08E-06	4.20E-06	0.000151468
0.501732	-0.0309202	-0.0126613	1.21E-05	5.93E-06	0.000216802
0.501451	-0.0322795	-0.0126957	1.24E-05	4.92E-06	0.000214678
0.501092	-0.0337779	-0.0123618	1.14E-05	2.32E-06	0.000195273
0.501056	-0.0347976	-0.0133019	1.04E-05	1.93E-06	0.000197735
0.500777	-0.0361427	-0.0133267	9.43E-06	9.72E-07	0.000207912
0.500535	-0.0374562	-0.0134388	9.71E-06	2.83E-06	0.000214045
0.50036	-0.0386812	-0.0138286	9.75E-06	3.30E-06	0.000208957
0.514011	-0.0324153	-0.0132342	1.23E-05	4.68E-06	0.000261748
0.513596	-0.0339836	-0.0127224	1.23E-05	2.93E-06	0.000264958
0.513278	-0.035401	-0.012567	1.24E-05	2.25E-06	0.000254135
0.512969	-0.0367942	-0.012509	1.22E-05	1.98E-06	0.000253936
0.512937	-0.0378174	-0.013448	1.15E-05	2.12E-06	0.000261947
0.512549	-0.0393213	-0.0130098	1.11E-05	2.43E-06	0.000259801
0.512168	-0.0408143	-0.0126742	1.11E-05	2.58E-06	0.000258095
0.526038	-0.0342922	-0.0127974	1.16E-05	3.86E-06	0.000314584
0.525837	-0.035555	-0.0131046	1.12E-05	4.61E-06	0.000313485
0.5255	-0.0369707	-0.0129539	1.13E-05	4.81E-06	0.000300485
0.524852	-0.0388403	-0.0116238	1.24E-05	5.61E-06	0.000297376
0.5249	-0.0397514	-0.0128294	1.19E-05	4.87E-06	0.00030004
0.524686	-0.040997	-0.0131284	1.21E-05	3.54E-06	0.000313604
0.524411	-0.042346	-0.0131507	1.17E-05	3.85E-06	0.000312235
0.538094	-0.0360997	-0.0125389	1.18E-05	4.08E-06	0.000348921
0.537968	-0.037263	-0.0131187	1.19E-05	2.85E-06	0.000361756
0.537316	-0.039083	-0.0118828	1.21E-05	3.99E-06	0.000353424
0.537038	-0.0404335	-0.0119106	1.22E-05	6.49E-06	0.000333893

0.537142	-0.0412951	-0.0133025	1.17E-05	6.25E-06	0.000330915
0.536697	-0.0428298	-0.012781	1.18E-05	5.22E-06	0.000339361
0.550119	-0.0379428	-0.0121841	1.12E-05	4.93E-06	0.00035606
0.549836	-0.0392958	-0.0122166	1.15E-05	3.10E-06	0.000374947
0.54967	-0.0404918	-0.0127082	1.14E-05	3.65E-06	0.000378298
0.549281	-0.0419778	-0.012376	1.13E-05	5.45E-06	0.000355098
0.549024	-0.0432963	-0.0124947	1.10E-05	6.52E-06	0.0003458
0.548755	-0.0445981	-0.0126095	1.18E-05	6.83E-06	0.000361877

Source File beam0lb\_45deg\_fast\_169.4Hz  
 Name:  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 169.4 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0622235	0.0193966	-0.0081903	5.68E-06	2.26E-05	0.000220373
0.062097	0.0180518	-0.0083055	8.67E-06	3.36E-05	0.000206652
0.0620045	0.0166294	-0.00823762	9.35E-06	3.18E-05	0.00019835
0.0618559	0.015464	-0.00870844	1.01E-05	1.93E-05	0.000194622
0.0618698	0.0135845	-0.00753341	1.15E-05	1.69E-05	0.000187824
0.0617082	0.0124314	-0.00810393	1.09E-05	1.38E-05	0.000185504
0.0615968	0.0110874	-0.00821371	1.01E-05	1.60E-05	0.000192757
0.0743432	0.0179062	-0.00876108	9.72E-06	2.06E-05	0.000395505
0.074274	0.0163829	-0.00841235	7.89E-06	2.52E-05	0.000392216
0.0742051	0.0148606	-0.00806188	1.23E-05	2.10E-05	0.000389766
0.0740213	0.013748	-0.00872467	1.37E-05	1.92E-05	0.000394965
0.0739694	0.0121375	-0.00819241	1.50E-05	1.86E-05	0.000395022
0.0738815	0.0106807	-0.00802633	1.66E-05	1.85E-05	0.000396978
0.0737362	0.00942889	-0.00831182	1.62E-05	2.21E-05	0.000398602
0.086535	0.0161925	-0.00876564	1.41E-05	2.19E-05	0.000704045
0.086448	0.0146965	-0.00851247	1.51E-05	2.43E-05	0.000703989
0.0863003	0.0134452	-0.0088028	1.77E-05	3.07E-05	0.000695825
0.0862073	0.0120018	-0.00863319	1.69E-05	3.42E-05	0.000701466
0.0861292	0.0104699	-0.00828307	1.67E-05	3.66E-05	0.000699911
0.0860131	0.00905412	-0.00820593	1.62E-05	3.38E-05	0.0006449
0.0986895	0.0146662	-0.00921804	1.36E-05	3.04E-05	0.00110062
0.0985887	0.0131347	-0.0088698	1.46E-05	2.19E-05	0.00103415
0.0985037	0.0116163	-0.008516	1.22E-05	3.49E-05	0.00101289
0.0983889	0.0101631	-0.00834858	1.19E-05	3.89E-05	0.000997023
0.0982449	0.00893742	-0.00873439	7.80E-06	4.06E-05	0.000998314
0.0981154	0.00763569	-0.00893448	7.68E-06	4.09E-05	0.00106261
0.111004	0.0142461	-0.00899009	2.39E-06	4.72E-05	0.0013762
0.11089	0.0128296	-0.00891992	1.65E-06	3.97E-05	0.00137706
0.110699	0.0117966	-0.00976891	2.35E-06	3.19E-05	0.00137908
0.110619	0.0102032	-0.00922938	6.37E-06	3.79E-05	0.00136289

0.110472	0.00896476	-0.00962145	9.98E-06	4.57E-05	0.00135762
0.110351	0.00751302	-0.00945161	9.67E-06	4.50E-05	0.00141293
0.11025	0.00602306	-0.0091892	9.22E-06	4.69E-05	0.00148939
0.123142	0.0128622	-0.00978694	1.96E-05	4.93E-05	0.0017037
0.123069	0.01109	-0.00889076	1.78E-05	4.39E-05	0.00170216
0.122877	0.0100959	-0.00983193	1.37E-05	3.55E-05	0.00170665
0.122754	0.0087325	-0.00984483	1.37E-05	3.97E-05	0.00170744
0.122624	0.00739424	-0.00995395	1.51E-05	4.87E-05	0.00170223
0.122497	0.00594402	-0.00978307	1.83E-05	5.32E-05	0.0017063
0.12242	0.0042161	-0.00896998	1.65E-05	5.67E-05	0.00177062
0.135316	0.0113057	-0.0102085	3.14E-05	4.56E-05	0.00204718
0.13519	0.00977845	-0.00985823	2.66E-05	4.38E-05	0.00204717
0.135083	0.00821303	-0.00941495	2.23E-05	3.83E-05	0.00204898
0.134978	0.00666208	-0.00896451	2.41E-05	3.89E-05	0.00204652
0.134798	0.00557883	-0.00972377	2.25E-05	5.35E-05	0.00204398
0.134683	0.00409159	-0.00946041	2.14E-05	6.15E-05	0.00203959
0.134541	0.00271947	-0.00947178	2.21E-05	6.42E-05	0.00203861
0.147482	0.00972053	-0.0105177	4.40E-05	5.75E-05	0.00234692
0.14739	0.00788974	-0.00942795	3.74E-05	5.57E-05	0.00235107
0.147241	0.00665445	-0.00982082	3.82E-05	4.84E-05	0.00235742
0.147092	0.00533313	-0.00992321	4.21E-05	4.03E-05	0.00235855
0.146944	0.00411068	-0.0103082	4.22E-05	5.07E-05	0.00235699
0.146841	0.00238575	-0.00949368	3.52E-05	6.14E-05	0.00229838
0.159686	0.00778724	-0.0099821	6.46E-05	6.52E-05	0.00259028
0.159525	0.00670377	-0.0107461	6.17E-05	6.65E-05	0.00259381
0.159389	0.00529242	-0.0106708	5.97E-05	5.93E-05	0.00260415
0.159244	0.00385851	-0.0104951	6.29E-05	4.73E-05	0.00260578
0.159123	0.00220966	-0.0098662	6.16E-05	5.17E-05	0.00260495
0.158961	0.00117587	-0.0107125	6.14E-05	5.89E-05	0.00259926
0.171855	0.00625361	-0.0104549	7.61E-05	6.72E-05	0.00279325
0.171719	0.00473009	-0.0101025	7.50E-05	6.59E-05	0.00277304
0.171559	0.00368435	-0.0109576	7.60E-05	6.07E-05	0.00277533
0.171418	0.00202616	-0.0102253	7.60E-05	5.33E-05	0.00278059
0.171258	0.00103023	-0.0111655	7.77E-05	5.59E-05	0.00277729
0.171131	-0.000728439	-0.0102557	7.84E-05	6.12E-05	0.00277404
0.184194	0.00617328	-0.0110758	8.58E-05	6.70E-05	0.00289036
0.184038	0.00450049	-0.0103532	8.71E-05	6.49E-05	0.00289245
0.183885	0.00334212	-0.0109315	8.87E-05	6.40E-05	0.0028886
0.18374	0.00190884	-0.0107567	9.02E-05	6.42E-05	0.00288999
0.183578	0.000488998	-0.0106829	9.11E-05	6.13E-05	0.00288995
0.18343	-0.000843793	-0.0107885	9.09E-05	6.41E-05	0.00288504
0.183278	-0.00195252	-0.0114492	9.13E-05	6.38E-05	0.0028798
0.196373	0.00441439	-0.0109601	0.000102701	6.66E-05	0.00292433
0.19622	0.00310543	-0.011169	0.000100415	6.56E-05	0.00292466
0.196068	0.00188476	-0.0115566	0.000101961	6.40E-05	0.00292076
0.195902	0.000403128	-0.0112934	0.000102056	6.44E-05	0.00291942
0.195749	-0.00111645	-0.0109363	0.000103674	6.40E-05	0.00292299
0.195596	-0.00246163	-0.0110466	0.000101956	6.32E-05	0.00292088
0.19543	-0.00401505	-0.0105927	0.00010226	6.28E-05	0.00291698
0.208577	0.00298711	-0.0116645	0.000118007	7.03E-05	0.00287291
0.208394	0.00126712	-0.0108532	0.000115204	6.99E-05	0.0028719
0.208237	-7.81E-05	-0.0109675	0.000113024	6.50E-05	0.00286656

0.208082	-0.0014342	-0.0109769	0.000112596	6.32E-05	0.00286654
0.207914	-0.00266552	-0.0113662	0.000111153	6.28E-05	0.00286896
0.207766	-0.00377408	-0.0120279	0.000108989	6.23E-05	0.00287797
0.22074	0.00101726	-0.0110619	0.000127478	7.05E-05	0.0027201
0.220593	-9.02E-05	-0.0117283	0.000123096	6.83E-05	0.00272433
0.22042	-0.00165932	-0.0112859	0.000122304	6.33E-05	0.00272634
0.220261	-0.00272848	-0.0120423	0.000120023	6.18E-05	0.00273364
0.220087	-0.00432016	-0.0114986	0.000121524	6.20E-05	0.00273558
0.219905	-0.00581072	-0.0112364	0.000121719	6.22E-05	0.0027291
0.232923	-0.000645128	-0.0111809	0.000126396	6.18E-05	0.00240288
0.232761	-0.00195222	-0.0113888	0.000125572	5.86E-05	0.00248025
0.232601	-0.00324611	-0.01159	0.000124645	5.80E-05	0.00248126
0.232422	-0.00461246	-0.0116039	0.00012584	5.76E-05	0.00248521
0.232233	-0.00625229	-0.0109719	0.000128489	5.78E-05	0.0024857
0.232086	-0.007211	-0.0120044	0.000129927	5.67E-05	0.00248271
0.245142	-0.0018027	-0.0125888	0.000126666	3.89E-05	0.00197777
0.244944	-0.00343188	-0.0119568	0.000123607	3.83E-05	0.00210946
0.244748	-0.00503547	-0.0114209	0.000125159	4.44E-05	0.00217189
0.244615	-0.00592014	-0.0126414	0.000129329	5.26E-05	0.00217051
0.244425	-0.00747241	-0.0121898	0.000133679	5.24E-05	0.00216886
0.244219	-0.00903478	-0.0117416	0.000136062	5.10E-05	0.00216489
0.257425	-0.00285433	-0.0108065	0.000128948	3.17E-05	0.0017018
0.257309	-0.00366299	-0.0122154	0.000125189	2.97E-05	0.00171878
0.257123	-0.00511826	-0.0120522	0.000122328	2.54E-05	0.00178283
0.256947	-0.00648573	-0.0120675	0.00012524	3.46E-05	0.00178156
0.256758	-0.007851	-0.0120814	0.000132144	4.22E-05	0.00178089
0.256523	-0.00967189	-0.0109846	0.000136735	4.61E-05	0.0017786
0.256377	-0.010817	-0.0115525	0.000137073	4.32E-05	0.00177693
0.269673	-0.00408782	-0.0119945	0.000122561	2.33E-05	0.00134016
0.269489	-0.00539289	-0.0122037	0.000117898	2.06E-05	0.0013459
0.269326	-0.00664968	-0.0124988	0.000116667	1.86E-05	0.00134536
0.269137	-0.0079915	-0.0126125	0.000119681	1.96E-05	0.00134411
0.26891	-0.00965222	-0.0118837	0.000121816	2.77E-05	0.00134302
0.268754	-0.0108715	-0.0122674	0.000120935	2.89E-05	0.00134019
0.268576	-0.012139	-0.0125623	0.000120499	2.85E-05	0.0013385
0.281848	-0.0057849	-0.0120611	0.000113526	8.04E-06	0.000866445
0.28169	-0.00700478	-0.0124502	0.000112829	7.01E-06	0.000871318
0.281436	-0.00867735	-0.0117307	0.000111709	4.06E-06	0.000874268
0.281292	-0.00982339	-0.0123025	0.000114148	5.02E-06	0.000875507
0.28106	-0.0114456	-0.0116665	0.000118259	7.27E-06	0.000874836
0.280934	-0.0124206	-0.0127056	0.000121987	1.39E-05	0.000949272
0.294065	-0.00730404	-0.0125766	0.000102018	1.02E-05	0.000365728
0.293891	-0.00859797	-0.0127805	9.77E-05	9.26E-06	0.000368583
0.293703	-0.00988991	-0.0129834	9.80E-05	8.91E-06	0.000369721
0.293529	-0.0111837	-0.0131845	0.000100885	1.27E-05	0.000372429
0.293288	-0.0127306	-0.0127351	0.000114345	9.88E-06	0.000372689
0.293013	-0.0145094	-0.0117316	0.000127601	1.09E-05	0.000371104
0.306293	-0.00877915	-0.0131651	9.20E-05	2.84E-05	0.000224277
0.306055	-0.0103428	-0.0127259	9.09E-05	2.70E-05	0.00013949
0.305873	-0.0115981	-0.0130217	9.25E-05	2.96E-05	0.000136833
0.305654	-0.0130606	-0.0127539	0.000104102	3.52E-05	0.000133053
0.305424	-0.0145849	-0.0124022	0.000108927	3.31E-05	0.000131973

0.305165	-0.0161653	-0.0118583	0.000117358	2.84E-05	0.000132763
0.318576	-0.00951651	-0.0121442	8.65E-05	3.97E-05	0.000641508
0.318414	-0.0107504	-0.0125402	8.56E-05	4.41E-05	0.000638382
0.318268	-0.0118602	-0.0132081	7.93E-05	4.65E-05	0.00063184
0.318058	-0.0132766	-0.0131383	8.83E-05	5.01E-05	0.000628749
0.317852	-0.0146661	-0.0130563	8.95E-05	5.57E-05	0.000626465
0.317487	-0.0166086	-0.0115874	9.07E-05	5.22E-05	0.00062601
0.317458	-0.0173365	-0.0132752	8.43E-05	4.81E-05	0.00062565
0.330816	-0.0110168	-0.0127089	7.26E-05	5.04E-05	0.00111921
0.330672	-0.0121274	-0.0133783	7.19E-05	5.56E-05	0.00111184
0.330405	-0.0137256	-0.0128475	8.00E-05	5.98E-05	0.00110322
0.330232	-0.0149835	-0.0131431	7.78E-05	6.07E-05	0.00109504
0.329944	-0.0165873	-0.0125061	7.98E-05	6.34E-05	0.00109289
0.329853	-0.0175695	-0.0135457	7.02E-05	6.19E-05	0.00109077
0.329584	-0.0191128	-0.0130962	6.55E-05	5.91E-05	0.00108938
0.343027	-0.0125944	-0.0130752	5.98E-05	7.10E-05	0.00154011
0.34274	-0.0142154	-0.0124487	6.62E-05	7.75E-05	0.001536
0.342597	-0.0153268	-0.0131169	6.79E-05	7.82E-05	0.00152701
0.342285	-0.017031	-0.0123071	7.17E-05	7.68E-05	0.00152395
0.342204	-0.0179877	-0.0133369	5.81E-05	7.40E-05	0.00152172
0.342016	-0.019244	-0.013631	5.69E-05	6.85E-05	0.00144748
0.355184	-0.0143459	-0.01296	4.97E-05	8.95E-05	0.0019492
0.354995	-0.0156544	-0.0131718	5.15E-05	8.93E-05	0.00190587
0.354657	-0.0173431	-0.0123605	5.81E-05	9.01E-05	0.00190344
0.354543	-0.0184219	-0.013119	5.67E-05	8.81E-05	0.00190187
0.354184	-0.0202045	-0.0120201	4.98E-05	8.59E-05	0.0018971
0.354227	-0.0207813	-0.0140734	4.26E-05	8.18E-05	0.00189272
0.367378	-0.0160076	-0.0131138	3.34E-05	0.000101827	0.00232006
0.367292	-0.016978	-0.0141534	3.76E-05	9.98E-05	0.00225008
0.366955	-0.0186686	-0.0133426	3.77E-05	9.35E-05	0.00221686
0.366632	-0.0203214	-0.0126222	4.33E-05	9.46E-05	0.00221329
0.366546	-0.0212929	-0.0136582	3.78E-05	9.36E-05	0.00220136
0.366341	-0.0226237	-0.013767	3.74E-05	9.19E-05	0.00219451
0.379827	-0.016197	-0.0135077	2.36E-05	0.000107911	0.00246763
0.379548	-0.017709	-0.013163	2.55E-05	0.000109068	0.00246061
0.379326	-0.0190769	-0.0131857	2.56E-05	0.000106112	0.00242528
0.379005	-0.0206561	-0.0126542	2.55E-05	0.000100222	0.00242802
0.37891	-0.0217024	-0.0135052	2.91E-05	9.38E-05	0.00243131
0.378549	-0.0234109	-0.012594	3.22E-05	9.38E-05	0.00242416
0.378341	-0.0247033	-0.0127967	3.25E-05	9.72E-05	0.00241849
0.392026	-0.0178691	-0.0136345	1.29E-05	0.000104278	0.00253526
0.391848	-0.0190799	-0.0140245	1.37E-05	0.000104052	0.00253652
0.39144	-0.020876	-0.0129415	1.42E-05	0.000110477	0.00253429
0.391304	-0.0220305	-0.013517	1.16E-05	0.000103882	0.00253673
0.390989	-0.0235596	-0.0130721	1.48E-05	9.70E-05	0.00254006
0.390777	-0.0248909	-0.0131833	1.76E-05	9.65E-05	0.00254068
0.390505	-0.026363	-0.0129237	1.94E-05	9.97E-05	0.00253686
0.403921	-0.0201707	-0.012088	4.84E-06	9.31E-05	0.00253772
0.403833	-0.021219	-0.0129423	2.42E-06	9.59E-05	0.00254112
0.403618	-0.0225519	-0.0130586	2.75E-06	0.000103703	0.00254045
0.403277	-0.0241295	-0.0125297	2.76E-06	0.000102335	0.00254011
0.403286	-0.0249545	-0.0139285	2.74E-06	9.88E-05	0.00254232

0.403088	-0.0262145	-0.0142268	6.25E-06	9.42E-05	0.00254468
0.416281	-0.0214586	-0.0132042	2.21E-05	7.98E-05	0.00243788
0.416116	-0.0226489	-0.0136925	1.98E-05	8.29E-05	0.00244447
0.415846	-0.0240889	-0.0135337	1.75E-05	9.08E-05	0.00244634
0.415527	-0.0256203	-0.0130916	1.59E-05	9.54E-05	0.00244619
0.415296	-0.0269376	-0.013202	1.54E-05	9.10E-05	0.00244647
0.414942	-0.0285501	-0.0125775	1.48E-05	9.03E-05	0.00244362
0.428451	-0.0231402	-0.0132976	3.60E-05	8.21E-05	0.00218442
0.428228	-0.0244751	-0.0134171	3.03E-05	8.61E-05	0.00223396
0.427918	-0.0259719	-0.01307	3.11E-05	9.13E-05	0.00223551
0.427645	-0.0273734	-0.0130042	2.98E-05	8.54E-05	0.00223656
0.42737	-0.0287984	-0.0128378	2.86E-05	8.83E-05	0.00223856
0.427224	-0.0299415	-0.0134078	2.54E-05	8.16E-05	0.00223581
0.440804	-0.0235984	-0.0129808	4.57E-05	7.80E-05	0.00193775
0.440583	-0.0248966	-0.0131961	4.58E-05	7.97E-05	0.0019437
0.440283	-0.0263589	-0.0129439	4.03E-05	7.94E-05	0.00194586
0.440038	-0.0277288	-0.0129708	4.01E-05	7.83E-05	0.0019475
0.439799	-0.0290477	-0.0130845	4.35E-05	7.34E-05	0.00194909
0.439648	-0.0302298	-0.0135627	3.33E-05	7.13E-05	0.00195168
0.439422	-0.0315509	-0.0136719	3.36E-05	7.13E-05	0.0019484
0.452923	-0.0253555	-0.0128697	5.66E-05	6.44E-05	0.00156452
0.45285	-0.0264127	-0.0137254	5.23E-05	6.62E-05	0.00157122
0.45266	-0.0276668	-0.0140248	4.40E-05	5.86E-05	0.00157687
0.452319	-0.0291615	-0.013683	4.42E-05	5.63E-05	0.00158045
0.451932	-0.0307749	-0.0130675	4.72E-05	4.97E-05	0.00158152
0.451627	-0.0322218	-0.0128065	4.83E-05	5.05E-05	0.0015848
0.451616	-0.0331401	-0.0140255	4.88E-05	5.34E-05	0.00158152
0.465138	-0.0269801	-0.0131119	6.73E-05	5.15E-05	0.00111181
0.46483	-0.0284061	-0.0129578	6.74E-05	4.36E-05	0.00111687
0.464576	-0.029778	-0.0129884	6.16E-05	3.85E-05	0.00112385
0.464343	-0.0311016	-0.0131038	5.72E-05	3.44E-05	0.00112671
0.464097	-0.0324222	-0.0132198	6.01E-05	3.26E-05	0.0011283
0.463988	-0.0335256	-0.0138769	5.43E-05	3.25E-05	0.00112827
0.463576	-0.035134	-0.0132622	6.02E-05	4.02E-05	0.00112573
0.477205	-0.0288131	-0.0127989	7.07E-05	3.57E-05	0.000449781
0.476927	-0.0302074	-0.0127354	7.07E-05	3.04E-05	0.000579374
0.476591	-0.0316674	-0.0124897	6.76E-05	2.25E-05	0.000589151
0.476461	-0.0328196	-0.0130632	7.32E-05	2.75E-05	0.000598313
0.476287	-0.0340543	-0.0134581	6.71E-05	2.96E-05	0.000596917
0.475889	-0.035602	-0.012928	6.47E-05	2.94E-05	0.000687317
0.48945	-0.0303742	-0.013206	7.52E-05	1.09E-05	0.000327639
0.489263	-0.0315951	-0.0136026	6.74E-05	8.76E-06	0.000118098
0.488956	-0.0330246	-0.0134481	6.51E-05	8.97E-06	1.52E-05
0.48876	-0.0342823	-0.0137484	6.72E-05	8.91E-06	1.20E-05
0.488107	-0.0362198	-0.012223	6.99E-05	1.05E-05	1.13E-05
0.488112	-0.0371563	-0.0133372	5.99E-05	8.99E-06	1.06E-05
0.501732	-0.0309202	-0.0126613	8.83E-05	2.81E-05	0.000774728
0.501451	-0.0322795	-0.0126957	9.29E-05	2.68E-05	0.000749119
0.501092	-0.0337779	-0.0123618	9.25E-05	2.59E-05	0.000644185
0.501056	-0.0347976	-0.0133019	8.36E-05	2.47E-05	0.000648624
0.500777	-0.0361427	-0.0133267	7.75E-05	2.45E-05	0.000643364
0.500535	-0.0374562	-0.0134388	7.12E-05	2.20E-05	0.000640367

0.50036	-0.0386812	-0.0138286	7.02E-05	2.28E-05	0.000630671
0.514011	-0.0324153	-0.0132342	9.12E-05	5.86E-05	0.00132277
0.513596	-0.0339836	-0.0127224	9.56E-05	5.21E-05	0.0013194
0.513278	-0.035401	-0.012567	0.000116384	5.28E-05	0.00131656
0.512969	-0.0367942	-0.012509	0.000115067	5.20E-05	0.0013149
0.512937	-0.0378174	-0.013448	9.47E-05	5.18E-05	0.00130653
0.512549	-0.0393213	-0.0130098	8.90E-05	5.25E-05	0.00130143
0.512168	-0.0408143	-0.0126742	8.46E-05	5.30E-05	0.00129614
0.526038	-0.0342922	-0.0127974	8.83E-05	8.69E-05	0.0020196
0.525837	-0.0355555	-0.0131046	9.78E-05	7.48E-05	0.00201769
0.5255	-0.0369707	-0.0129539	0.000120996	6.96E-05	0.0020165
0.524852	-0.0388403	-0.0116238	0.00013119	6.31E-05	0.00200678
0.5249	-0.0397514	-0.0128294	0.000107311	7.37E-05	0.00199325
0.524686	-0.040997	-0.0131284	9.21E-05	8.05E-05	0.00198795
0.524411	-0.042346	-0.0131507	9.20E-05	8.46E-05	0.0019841
0.538094	-0.0360997	-0.0125389	0.000108645	0.000107534	0.00274771
0.537968	-0.037263	-0.0131187	0.0001005	9.20E-05	0.00274923
0.537316	-0.039083	-0.0118828	0.000115108	7.70E-05	0.00274436
0.537038	-0.0404335	-0.0119106	0.000119472	7.49E-05	0.00272837
0.537142	-0.0412951	-0.0133025	0.000108769	8.58E-05	0.00271117
0.536697	-0.0428298	-0.012781	0.000100552	0.000101792	0.00258387
0.550119	-0.0379428	-0.0121841	0.000117056	0.000116566	0.00328001
0.549836	-0.0392958	-0.0122166	0.000111586	9.44E-05	0.00331333
0.54967	-0.0404918	-0.0127082	0.000111232	7.74E-05	0.00330762
0.549281	-0.0419778	-0.012376	0.000116932	7.91E-05	0.00329157
0.549024	-0.0432963	-0.0124947	0.000113334	0.000109399	0.00328315
0.548755	-0.0445981	-0.0126095	0.000110283	0.000125501	0.00324332

Source File beam\_0lb\_neg15deg\_fast\_60Hz

Name:

Signal: FFT - Vib 3D Velocity - Magnitude

dB-Reference: 0 dB = 1 m/s

Band No.: 1

Frequency: 60.00 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0523132	0.0188111	-0.006511	9.90E-07	2.67E-06	7.04E-07
0.0523834	0.0172002	-0.006344	6.03E-07	1.19E-06	7.91E-07
0.0524291	0.0153095	-0.006818	7.73E-07	2.72E-06	7.07E-07
0.0524893	0.013853	-0.006172	6.28E-07	2.55E-06	2.79E-07
0.0525336	0.0119781	-0.006649	3.04E-07	2.29E-06	7.18E-07
0.068309	0.0198132	-0.005963	1.29E-06	2.88E-06	1.26E-06
0.0683698	0.018496	-0.004945	9.75E-07	1.84E-06	1.24E-06
0.0684281	0.0169719	-0.004488	7.91E-07	1.40E-06	1.44E-06
0.0684976	0.0148233	-0.005719	7.95E-07	1.00E-06	1.45E-06
0.068556	0.0131413	-0.005627	7.26E-07	1.53E-06	2.06E-06
0.0843041	0.0209364	-0.005087	6.51E-07	2.31E-06	1.37E-06

0.0843649	0.0193087	-0.004914	6.71E-07	2.35E-06	1.34E-06
0.0844198	0.0181487	-0.00342	7.22E-07	1.96E-06	1.68E-06
0.0844918	0.0157921	-0.005213	7.86E-07	2.71E-06	2.86E-06
0.0845715	0.0141299	-0.005129	1.07E-06	2.91E-06	3.87E-06
0.100287	0.0222836	-0.003603	5.61E-07	4.22E-06	3.96E-06
0.100359	0.0205019	-0.003799	7.59E-07	4.10E-06	6.57E-06
0.10042	0.0189446	-0.003437	8.76E-07	2.55E-06	4.37E-06
0.100482	0.0173873	-0.003074	9.71E-07	2.93E-06	1.33E-06
0.10057	0.0152214	-0.004296	5.92E-07	2.18E-06	1.02E-06
0.116257	0.023388	-0.002722	5.27E-07	2.30E-06	5.25E-06
0.116358	0.0215574	-0.003113	7.84E-07	4.73E-07	8.60E-06
0.116437	0.0197758	-0.003308	8.43E-07	1.65E-06	8.97E-06
0.1165	0.0182187	-0.002945	1.09E-06	1.46E-06	7.44E-06
0.116568	0.0165923	-0.002768	9.34E-07	9.10E-07	8.46E-06
0.132254	0.024426	-0.002084	3.12E-07	2.89E-06	1.94E-06
0.132381	0.0222329	-0.003407	2.82E-07	1.36E-06	2.62E-06
0.132434	0.0209881	-0.002201	6.19E-07	2.21E-06	8.07E-06
0.132508	0.0193453	-0.002019	1.40E-06	2.51E-06	1.00E-05
0.1326	0.0175115	-0.002405	1.93E-06	2.21E-06	1.12E-05
0.148231	0.0255659	-0.001111	9.67E-07	3.60E-06	1.05E-05
0.148337	0.0238406	-0.00122	1.16E-06	3.09E-06	1.21E-05
0.148436	0.0220265	-0.00151	1.17E-06	4.50E-07	1.20E-05
0.148494	0.0205398	-0.00096	1.09E-06	1.62E-06	8.79E-06
0.148584	0.0187937	-0.001058	1.32E-06	1.30E-06	9.01E-06
0.164189	0.0268781	0.0002779	7.22E-07	2.26E-06	5.02E-06
0.164332	0.0248259	-0.00067	6.51E-07	3.30E-06	2.50E-06
0.164424	0.023238	-0.000403	5.99E-07	1.94E-06	4.06E-06
0.164479	0.0217689	0.0002472	4.28E-07	8.58E-07	6.25E-06
0.164547	0.0202142	0.0006107	1.64E-07	6.31E-07	6.33E-06
0.180214	0.02771	0.0004064	1.05E-06	1.38E-06	1.68E-05
0.180266	0.0263629	0.0013282	1.20E-06	1.18E-06	1.81E-05
0.180387	0.0245168	0.0009451	1.60E-06	9.95E-07	2.03E-05
0.180507	0.0226868	0.0005574	1.81E-06	1.20E-06	2.46E-05
0.180658	0.0206657	-0.00029	1.29E-06	1.72E-06	2.40E-05
0.196185	0.028954	0.0016077	1.95E-06	2.88E-06	3.20E-05
0.196259	0.0273826	0.0019727	1.99E-06	3.51E-06	3.10E-05
0.196367	0.0256572	0.0018644	1.90E-06	3.89E-06	2.48E-05
0.196462	0.0239825	0.0019516	1.60E-06	4.44E-06	2.27E-05
0.196552	0.0224301	0.0023156	1.45E-06	4.90E-06	2.63E-05
0.212102	0.0302271	0.0029541	8.98E-07	2.68E-07	1.76E-05
0.212208	0.028537	0.0029379	7.30E-07	2.02E-06	1.34E-05
0.212326	0.0268651	0.0030243	6.69E-07	2.79E-06	6.96E-06
0.212488	0.0249338	0.0023564	8.75E-07	3.01E-06	1.26E-05
0.212523	0.0235338	0.0031941	1.17E-06	3.56E-06	1.98E-05
0.228156	0.0310256	0.0029369	3.52E-07	1.27E-06	4.31E-06
0.228198	0.0296602	0.0038646	4.29E-07	1.00E-06	4.94E-06
0.228292	0.0280381	0.0040374	5.82E-07	6.67E-07	8.25E-06
0.228423	0.0262615	0.0038443	1.03E-06	2.84E-06	1.98E-05
0.228544	0.0245358	0.00374	1.03E-06	3.41E-06	2.21E-05
0.244013	0.032571	0.0050327	1.49E-06	1.78E-06	2.17E-05
0.244109	0.0310196	0.0053922	1.63E-06	2.03E-06	2.17E-05
0.244208	0.0293807	0.0055715	1.77E-06	1.40E-06	1.90E-05

0.244374	0.0275198	0.0050918	1.20E-06	2.12E-06	2.37E-06
0.244433	0.026017	0.0056483	7.13E-07	2.59E-06	3.74E-06
0.259942	0.0338443	0.0063262	2.49E-06	4.56E-06	3.32E-05
0.260076	0.0321213	0.0062173	2.50E-06	4.77E-06	3.38E-05
0.260167	0.0305162	0.0064904	2.61E-06	5.70E-06	3.52E-05
0.260233	0.029067	0.0071334	2.28E-06	5.91E-06	3.20E-05
0.260486	0.0269496	0.0060091	2.15E-06	5.97E-06	3.19E-05
0.275907	0.034963	0.0071981	1.67E-06	3.66E-06	3.20E-05
0.27599	0.0333919	0.0075632	2.01E-06	4.26E-06	3.48E-05
0.276172	0.0316028	0.0072714	2.24E-06	6.57E-06	4.12E-05
0.276337	0.0297932	0.0069865	2.39E-06	6.99E-06	4.30E-05
0.276418	0.0282387	0.0073499	2.31E-06	6.73E-06	4.35E-05
0.291861	0.0360968	0.0081161	6.58E-07	4.91E-06	1.64E-05
0.291976	0.0344935	0.0083898	1.15E-06	4.20E-06	1.97E-05
0.292161	0.0326685	0.0080041	1.32E-06	4.36E-06	2.46E-05
0.292334	0.0308588	0.0077202	1.26E-06	3.56E-06	2.82E-05
0.292328	0.0295417	0.0087362	1.20E-06	2.87E-06	2.69E-05
0.307728	0.0374655	0.0097407	1.37E-07	3.07E-06	2.40E-06
0.3078	0.035945	0.0101927	2.84E-08	3.08E-06	6.46E-06
0.30798	0.0341545	0.009901	3.05E-07	2.31E-06	6.77E-06
0.308161	0.0323457	0.0096178	7.02E-07	2.64E-06	1.46E-05
0.30825	0.030827	0.0100764	6.24E-07	2.88E-06	1.06E-05
0.323656	0.0386286	0.0107496	1.80E-06	2.19E-06	3.30E-05
0.323743	0.0370737	0.0111088	1.76E-06	2.45E-06	3.52E-05
0.323949	0.0352854	0.0108202	1.34E-06	2.60E-06	2.99E-05
0.324182	0.0333751	0.0102591	8.92E-07	2.00E-06	1.88E-05
0.32437	0.0315822	0.0099725	5.85E-07	2.90E-06	1.34E-05
0.339607	0.0397397	0.0116182	1.55E-06	2.86E-06	2.97E-05
0.339714	0.0381863	0.01198	1.59E-06	3.63E-06	3.41E-05
0.339972	0.036261	0.011319	1.61E-06	4.05E-06	4.13E-05
0.340046	0.0347208	0.0117814	1.63E-06	4.40E-06	4.32E-05
0.340088	0.0332659	0.0124244	1.57E-06	4.79E-06	4.16E-05
0.35549	0.0409994	0.0129043	5.18E-07	2.94E-06	2.01E-05
0.35558	0.0394429	0.0132644	3.31E-07	2.72E-06	2.25E-05
0.355705	0.0378556	0.0135353	7.23E-07	2.39E-06	2.17E-05
0.356105	0.0356611	0.0121358	1.13E-06	2.58E-06	2.68E-05
0.356048	0.0344064	0.0133355	1.31E-06	3.00E-06	2.91E-05
0.371313	0.0423734	0.0145136	3.97E-07	1.94E-06	9.60E-06
0.371508	0.0406165	0.0143178	5.50E-07	1.64E-06	1.21E-05
0.371601	0.0390592	0.0146798	7.93E-07	2.23E-06	1.31E-05
0.371882	0.0371336	0.0140243	1.21E-06	3.53E-06	1.46E-05
0.371957	0.0356453	0.0145772	1.33E-06	3.79E-06	1.60E-05
0.387086	0.0437736	0.0161554	2.00E-07	1.75E-06	1.50E-05
0.387325	0.0419861	0.0158708	3.69E-07	1.10E-06	1.60E-05
0.387527	0.0402283	0.015678	6.62E-07	8.54E-07	1.98E-05
0.387567	0.0387702	0.0163196	7.77E-07	1.92E-06	1.66E-05
0.387842	0.0368774	0.0157603	1.37E-06	2.78E-06	1.15E-05
0.402963	0.0449719	0.0172925	6.33E-07	6.09E-07	1.56E-05
0.403039	0.0434822	0.0178414	6.51E-07	1.29E-06	1.54E-05
0.403401	0.0414589	0.0169108	6.37E-07	1.78E-06	1.62E-05
0.403706	0.0395332	0.0162595	3.37E-07	2.50E-06	1.47E-05
0.403801	0.038009	0.016721	3.58E-07	3.10E-06	1.07E-05

0.418821	0.0462356	0.0185606	4.45E-07	1.08E-06	1.26E-05
0.418819	0.044841	0.0193839	5.13E-07	1.54E-06	1.37E-05
0.419136	0.0429176	0.0187326	6.29E-07	1.68E-06	1.24E-05
0.419333	0.0411916	0.0186366	1.04E-06	1.72E-06	8.44E-06
0.419388	0.0397338	0.0192827	7.25E-07	1.76E-06	6.38E-06
0.434707	0.0473927	0.0195979	1.03E-06	1.63E-06	8.37E-06
0.434682	0.046029	0.0205132	9.98E-07	1.34E-06	6.76E-06
0.434988	0.0441558	0.0199499	1.14E-06	1.67E-06	7.27E-06
0.43523	0.0423987	0.0197664	1.23E-06	1.43E-06	7.21E-06
0.435474	0.0406048	0.0194897	1.30E-06	1.64E-06	6.94E-06
0.450213	0.0491363	0.0222344	1.41E-06	3.13E-06	8.18E-06
0.450466	0.0473452	0.0219538	1.40E-06	2.91E-06	8.37E-06
0.450565	0.0458009	0.0223118	1.36E-06	3.11E-06	7.40E-06
0.45064	0.044308	0.0228649	1.40E-06	3.16E-06	6.57E-06
0.45111	0.0421845	0.0216711	1.04E-06	2.88E-06	6.16E-06
0.465955	0.0504617	0.0237105	1.09E-06	4.98E-06	4.68E-06
0.466166	0.0487711	0.0237106	1.68E-06	4.83E-06	1.28E-06
0.466426	0.0469962	0.0234271	1.62E-06	4.62E-06	3.09E-06
0.466799	0.0450384	0.0226937	1.78E-06	4.32E-06	7.00E-06
0.467081	0.0432281	0.0223224	1.71E-06	3.36E-06	8.00E-06
0.481729	0.0517336	0.0250436	1.05E-06	2.83E-06	7.44E-06
0.482179	0.0497335	0.024123	2.15E-06	2.60E-06	5.25E-06
0.482143	0.0483643	0.0250385	3.01E-06	2.97E-06	1.18E-05
0.482692	0.0461947	0.0236608	3.47E-06	1.79E-06	1.55E-05
0.482837	0.0445987	0.0239425	3.31E-06	1.62E-06	1.51E-05
0.497592	0.0528876	0.0260516	3.33E-06	3.81E-06	2.43E-05
0.497697	0.051339	0.0264104	3.17E-06	2.22E-06	2.20E-05
0.497941	0.0496307	0.0263176	2.16E-06	2.08E-06	1.48E-05
0.498242	0.0478032	0.0259555	1.34E-06	1.89E-06	7.62E-06
0.498346	0.0462538	0.026319	1.44E-06	1.65E-06	6.30E-06
0.513208	0.0543419	0.0279188	2.94E-06	4.65E-06	2.03E-05
0.513618	0.0524037	0.0271841	1.92E-06	3.54E-06	1.65E-05
0.513742	0.0508559	0.0275493	1.62E-06	1.08E-06	1.50E-05
0.514151	0.0489149	0.0268186	1.65E-06	4.98E-07	1.29E-05
0.514206	0.0474286	0.0273653	1.54E-06	1.06E-06	1.60E-05
0.52892	0.0556604	0.0293582	2.37E-06	1.74E-06	1.26E-05
0.529054	0.0540765	0.0296277	6.33E-07	1.04E-06	6.69E-06
0.529233	0.0524633	0.0298118	2.36E-06	2.97E-06	1.83E-05
0.529471	0.0507496	0.0297206	3.13E-06	4.31E-06	2.37E-05
0.529735	0.0490026	0.0295402	3.09E-06	4.75E-06	2.76E-05

Source File beam\_0lb\_neg15deg\_fast\_169.4Hz

Name:

Signal: FFT - Vib 3D Velocity - Magnitude

dB-Reference: 0 dB = 1 m/s

Band No.: 1

Frequency: 169.4 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0523132	0.0188111	-0.006511	1.07E-05	2.42E-05	5.01E-05
0.0523834	0.0172002	-0.006344	1.19E-05	2.66E-05	4.94E-05
0.0524291	0.0153095	-0.006818	1.33E-05	2.84E-05	4.88E-05
0.0524893	0.013853	-0.006172	1.19E-05	2.37E-05	4.52E-05
0.0525336	0.0119781	-0.006649	1.24E-05	2.04E-05	4.69E-05
0.068309	0.0198132	-0.005963	1.81E-05	3.28E-05	0.000114961
0.0683698	0.018496	-0.004945	1.95E-05	3.32E-05	0.000115227
0.0684281	0.0169719	-0.004488	2.16E-05	3.89E-05	0.000116333
0.0684976	0.0148233	-0.005719	1.76E-05	3.56E-05	0.000115084
0.068556	0.0131413	-0.005627	1.73E-05	3.27E-05	0.000116364
0.0843041	0.0209364	-0.005087	2.78E-05	5.23E-05	0.000235957
0.0843649	0.0193087	-0.004914	3.01E-05	5.39E-05	0.000236436
0.0844198	0.0181487	-0.00342	3.27E-05	5.15E-05	0.000236416
0.0844918	0.0157921	-0.005213	2.72E-05	5.06E-05	0.000236254
0.0845715	0.0141299	-0.005129	2.47E-05	4.78E-05	0.000237122
0.100287	0.0222836	-0.003603	3.78E-05	7.40E-05	0.000382624
0.100359	0.0205019	-0.003799	3.78E-05	7.20E-05	0.000382694
0.10042	0.0189446	-0.003437	4.18E-05	6.85E-05	0.000382977
0.100482	0.0173873	-0.003074	3.93E-05	6.83E-05	0.000381521
0.10057	0.0152214	-0.004296	3.78E-05	6.69E-05	0.000381816
0.116257	0.023388	-0.002722	4.70E-05	8.69E-05	0.000536941
0.116358	0.0215574	-0.003113	4.46E-05	8.63E-05	0.000535821
0.116437	0.0197758	-0.003308	4.48E-05	8.37E-05	0.000535799
0.1165	0.0182187	-0.002945	4.53E-05	8.34E-05	0.000533329
0.116568	0.0165923	-0.002768	4.58E-05	8.58E-05	0.000533874
0.132254	0.024426	-0.002084	5.23E-05	0.00010067	0.000688127
0.132381	0.0222329	-0.003407	5.06E-05	0.000101029	0.000688489
0.132434	0.0209881	-0.002201	4.98E-05	9.93E-05	0.0006884
0.132508	0.0193453	-0.002019	5.11E-05	9.94E-05	0.000686616
0.1326	0.0175115	-0.002405	5.17E-05	0.000102562	0.000687352
0.148231	0.0255659	-0.001111	5.43E-05	0.000116045	0.000817102
0.148337	0.0238406	-0.00122	5.38E-05	0.00011838	0.00081644
0.148436	0.0220265	-0.00151	5.34E-05	0.000118029	0.0008167
0.148494	0.0205398	-0.00096	5.50E-05	0.000117598	0.000814075
0.148584	0.0187937	-0.001058	5.58E-05	0.000119969	0.000816374
0.164189	0.0268781	0.0002779	5.52E-05	0.000129941	0.000915721
0.164332	0.0248259	-0.00067	5.48E-05	0.000131702	0.000914993
0.164424	0.023238	-0.000403	5.32E-05	0.000131993	0.000914291
0.164479	0.0217689	0.0002472	5.40E-05	0.000131867	0.000914454
0.164547	0.0202142	0.0006107	5.45E-05	0.000134554	0.000914265
0.180214	0.02771	0.0004064	5.02E-05	0.000144521	0.000968656
0.180266	0.0263629	0.0013282	5.05E-05	0.000145595	0.000964589
0.180387	0.0245168	0.0009451	4.83E-05	0.00014472	0.00096472
0.180507	0.0226868	0.0005574	4.81E-05	0.000145859	0.000967086
0.180658	0.0206657	-0.00029	4.74E-05	0.000149349	0.00096742
0.196185	0.028954	0.0016077	3.96E-05	0.000147628	0.000972845
0.196259	0.0273826	0.0019727	4.03E-05	0.000147393	0.000969923
0.196367	0.0256572	0.0018644	4.04E-05	0.000148834	0.000968422
0.196462	0.0239825	0.0019516	3.90E-05	0.000150258	0.000973458
0.196552	0.0224301	0.0023156	3.82E-05	0.000154638	0.000970562
0.212102	0.0302271	0.0029541	2.77E-05	0.00013832	0.000924678

0.212208	0.028537	0.0029379	2.83E-05	0.000140714	0.000924667
0.212326	0.0268651	0.0030243	2.76E-05	0.000148232	0.000928896
0.212488	0.0249338	0.0023564	2.62E-05	0.000151085	0.000933692
0.212523	0.0235338	0.0031941	2.50E-05	0.000152899	0.000932025
0.228156	0.0310256	0.0029369	1.35E-05	0.000123885	0.000830166
0.228198	0.0296602	0.0038646	1.31E-05	0.000128797	0.000832398
0.228292	0.0280381	0.0040374	1.28E-05	0.000137748	0.000833233
0.228423	0.0262615	0.0038443	1.17E-05	0.000142193	0.000837452
0.228544	0.0245358	0.00374	1.15E-05	0.000141784	0.000834436
0.244013	0.032571	0.0050327	7.62E-06	0.000106685	0.00069471
0.244109	0.0310196	0.0053922	8.40E-06	0.00010893	0.000695193
0.244208	0.0293807	0.0055715	9.11E-06	0.000116846	0.000695009
0.244374	0.0275198	0.0050918	9.16E-06	0.000116132	0.000694305
0.244433	0.026017	0.0056483	1.05E-05	0.0001164	0.000692201
0.259942	0.0338443	0.0063262	2.50E-05	7.60E-05	0.000517257
0.260076	0.0321213	0.0062173	2.54E-05	8.06E-05	0.000519233
0.260167	0.0305162	0.0064904	2.53E-05	8.70E-05	0.000521665
0.260233	0.029067	0.0071334	2.62E-05	9.29E-05	0.000522962
0.260486	0.0269496	0.0060091	2.79E-05	8.74E-05	0.000519629
0.275907	0.034963	0.0071981	4.02E-05	5.91E-05	0.000317112
0.27599	0.0333919	0.0075632	4.02E-05	6.09E-05	0.000318482
0.276172	0.0316028	0.0072714	3.98E-05	6.73E-05	0.000320893
0.276337	0.0297932	0.0069865	3.99E-05	6.63E-05	0.00032204
0.276418	0.0282387	0.0073499	4.13E-05	6.23E-05	0.000318451
0.291861	0.0360968	0.0081161	5.45E-05	3.62E-05	0.000101817
0.291976	0.0344935	0.0083898	5.44E-05	3.79E-05	0.000102201
0.292161	0.0326685	0.0080041	5.49E-05	3.85E-05	0.00010351
0.292334	0.0308588	0.0077202	5.62E-05	4.10E-05	0.000105026
0.292328	0.0295417	0.0087362	5.68E-05	3.63E-05	0.000103564
0.307728	0.0374655	0.0097407	6.93E-05	2.59E-05	0.000124287
0.3078	0.035945	0.0101927	6.94E-05	2.56E-05	0.000140383
0.30798	0.0341545	0.009901	6.86E-05	2.45E-05	0.000139821
0.308161	0.0323457	0.0096178	6.88E-05	1.68E-05	0.000137706
0.30825	0.030827	0.0100764	6.86E-05	1.15E-05	0.000119446
0.323656	0.0386286	0.0107496	7.81E-05	3.70E-05	0.000356134
0.323743	0.0370737	0.0111088	7.79E-05	3.88E-05	0.000383645
0.323949	0.0352854	0.0108202	7.65E-05	3.97E-05	0.000399198
0.324182	0.0333751	0.0102591	7.52E-05	3.43E-05	0.0003802
0.32437	0.0315822	0.0099725	7.49E-05	3.34E-05	0.000346357
0.339607	0.0397397	0.0116182	8.26E-05	5.98E-05	0.000514598
0.339714	0.0381863	0.01198	8.27E-05	5.33E-05	0.000526238
0.339972	0.036261	0.011319	8.20E-05	5.21E-05	0.000525393
0.340046	0.0347208	0.0117814	8.10E-05	5.63E-05	0.000526436
0.340088	0.0332659	0.0124244	7.98E-05	5.63E-05	0.000507369
0.35549	0.0409994	0.0129043	8.37E-05	8.43E-05	0.000663727
0.35558	0.0394429	0.0132644	8.38E-05	7.28E-05	0.000661384
0.355705	0.0378556	0.0135353	8.42E-05	7.00E-05	0.000659883
0.356105	0.0356611	0.0121358	8.34E-05	6.84E-05	0.000661223
0.356048	0.0344064	0.0133355	8.23E-05	7.08E-05	0.000659943
0.371313	0.0423734	0.0145136	8.14E-05	9.25E-05	0.000765611
0.371508	0.0406165	0.0143178	8.16E-05	8.72E-05	0.000764528
0.371601	0.0390592	0.0146798	8.20E-05	8.67E-05	0.000763368

0.371882	0.0371336	0.0140243	8.22E-05	8.54E-05	0.000763275
0.371957	0.0356453	0.0145772	8.13E-05	8.25E-05	0.000762266
0.387086	0.0437736	0.0161554	7.65E-05	8.89E-05	0.000817143
0.387325	0.0419861	0.0158708	7.69E-05	8.91E-05	0.00081927
0.387527	0.0402283	0.015678	7.72E-05	9.38E-05	0.000818846
0.387567	0.0387702	0.0163196	7.77E-05	9.41E-05	0.000819266
0.387842	0.0368774	0.0157603	7.79E-05	9.41E-05	0.000818128
0.402963	0.0449719	0.0172925	6.53E-05	8.25E-05	0.000815065
0.403039	0.0434822	0.0178414	6.54E-05	8.45E-05	0.000817025
0.403401	0.0414589	0.0169108	6.58E-05	8.97E-05	0.000819196
0.403706	0.0395332	0.0162595	6.72E-05	9.30E-05	0.000820842
0.403801	0.038009	0.016721	6.80E-05	9.52E-05	0.000820595
0.418821	0.0462356	0.0185606	5.07E-05	7.17E-05	0.00075841
0.418819	0.044841	0.0193839	5.07E-05	7.30E-05	0.000760098
0.419136	0.0429176	0.0187326	5.10E-05	7.69E-05	0.000762748
0.419333	0.0411916	0.0186366	5.25E-05	8.01E-05	0.000764282
0.419388	0.0397338	0.0192827	5.34E-05	8.11E-05	0.00076269
0.434707	0.0473927	0.0195979	3.31E-05	5.62E-05	0.000653224
0.434682	0.046029	0.0205132	3.25E-05	5.53E-05	0.000653445
0.434988	0.0441558	0.0199499	3.32E-05	5.69E-05	0.0006526
0.43523	0.0423987	0.0197664	3.49E-05	5.68E-05	0.000648768
0.435474	0.0406048	0.0194897	3.48E-05	5.68E-05	0.000646102
0.450213	0.0491363	0.0222344	1.02E-05	3.21E-05	0.000497293
0.450466	0.0473452	0.0219538	9.09E-06	3.05E-05	0.000497402
0.450565	0.0458009	0.0223118	8.51E-06	2.93E-05	0.000493741
0.45064	0.044308	0.0228649	1.08E-05	2.94E-05	0.000485801
0.45111	0.0421845	0.0216711	1.17E-05	2.91E-05	0.000481633
0.465955	0.0504617	0.0237105	1.62E-05	9.41E-06	0.000291179
0.466166	0.0487711	0.0237106	1.72E-05	1.22E-05	0.000291491
0.466426	0.0469962	0.0234271	1.31E-05	1.07E-05	0.000288669
0.466799	0.0450384	0.0226937	1.18E-05	7.28E-06	0.000282164
0.467081	0.0432281	0.0223224	9.01E-06	7.51E-06	0.000275642
0.481729	0.0517336	0.0250436	3.90E-05	4.59E-05	6.52E-05
0.482179	0.0497335	0.024123	3.72E-05	4.64E-05	6.80E-05
0.482143	0.0483643	0.0250385	3.52E-05	4.63E-05	6.86E-05
0.482692	0.0461947	0.0236608	3.25E-05	4.32E-05	6.52E-05
0.482837	0.0445987	0.0239425	2.97E-05	3.96E-05	6.11E-05
0.497592	0.0528876	0.0260516	6.29E-05	8.70E-05	0.000242469
0.497697	0.051339	0.0264104	6.31E-05	8.76E-05	0.000246422
0.497941	0.0496307	0.0263176	5.86E-05	8.67E-05	0.000249715
0.498242	0.0478032	0.0259555	6.08E-05	8.53E-05	0.00025242
0.498346	0.0462538	0.026319	5.68E-05	8.23E-05	0.000255663
0.513208	0.0543419	0.0279188	8.99E-05	0.00013664	0.000534836
0.513618	0.0524037	0.0271841	8.93E-05	0.000129132	0.000534299
0.513742	0.0508559	0.0275493	8.52E-05	0.000130122	0.000537542
0.514151	0.0489149	0.0268186	8.25E-05	0.000128529	0.000539257
0.514206	0.0474286	0.0273653	8.31E-05	0.000127997	0.000542793
0.52892	0.0556604	0.0293582	0.00010851	0.000179709	0.000759141
0.529054	0.0540765	0.0296277	0.000112194	0.000170476	0.000772319
0.529233	0.0524633	0.0298118	0.000110618	0.000161964	0.000770664
0.529471	0.0507496	0.0297206	0.000109051	0.000160396	0.000774398
0.529735	0.0490026	0.0295402	0.000106589	0.000157486	0.000763933

Source File

Name: beam0lb\_neg30deg\_fast\_60.63Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 60.63 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0533167	0.0254045	-0.003977	2.93E-06	7.05E-06	9.89E-06
0.0702199	0.0260086	-0.004857	4.39E-07	5.55E-07	1.95E-05
0.0702813	0.0245392	-0.004182	4.32E-06	6.97E-06	1.89E-05
0.05339	0.0238539	-0.003484	5.09E-07	1.36E-06	1.01E-05
0.0703886	0.0229198	-0.003873	6.13E-06	1.46E-05	1.69E-05
0.0536137	0.0214872	-0.004809	1.11E-06	3.66E-06	9.93E-06
0.0705848	0.0208288	-0.004553	6.04E-07	2.02E-05	1.36E-05
0.0536746	0.0201032	-0.003948	1.78E-06	5.18E-06	7.80E-06
0.087143	0.0268674	-0.005188	2.32E-06	2.37E-06	4.17E-05
0.087175	0.0256043	-0.004058	6.63E-06	9.09E-06	4.26E-05
0.0873346	0.0237775	-0.004202	8.16E-06	1.99E-05	4.05E-05
0.087526	0.0217269	-0.00479	5.60E-06	2.52E-05	3.49E-05
0.104084	0.0279816	-0.004968	5.96E-07	2.48E-06	6.90E-05
0.104201	0.0263038	-0.004745	2.47E-06	1.95E-06	7.72E-05
0.104384	0.0244207	-0.004971	2.63E-06	5.61E-06	7.35E-05
0.104556	0.0225918	-0.005111	3.87E-06	1.51E-05	6.46E-05
0.121112	0.0289379	-0.005106	1.87E-06	1.03E-05	9.66E-05
0.121275	0.0271784	-0.005061	1.49E-06	9.79E-07	0.000105204
0.121375	0.0255815	-0.004654	1.88E-06	3.02E-06	0.000107434
0.12163	0.0234909	-0.005328	1.39E-06	4.57E-06	9.57E-05
0.138249	0.0297812	-0.005505	2.96E-06	1.98E-06	0.000128665
0.138447	0.0279387	-0.00564	2.70E-06	1.09E-06	0.000141304
0.138616	0.0261345	-0.005682	3.18E-06	6.78E-07	0.000141563
0.138788	0.0243722	-0.005631	2.55E-06	9.88E-07	0.000133316
0.155425	0.0307017	-0.005708	2.80E-06	3.03E-06	0.000160083
0.155593	0.0289808	-0.005569	2.99E-06	1.38E-06	0.000166678
0.155788	0.027135	-0.0057	3.26E-06	3.20E-06	0.000176082
0.15604	0.0251667	-0.006098	2.87E-06	3.78E-06	0.000177144
0.172769	0.030128	-0.005314	3.66E-06	2.55E-06	0.000206445
0.173112	0.0279144	-0.006254	3.86E-06	4.53E-06	0.00021637
0.173213	0.0263949	-0.005658	4.10E-06	5.56E-06	0.000223931
0.190087	0.031026	-0.005582	6.30E-06	2.98E-06	0.000228015
0.190354	0.0290989	-0.005887	6.89E-06	5.40E-06	0.000250963
0.190623	0.0271276	-0.00628	6.98E-06	5.32E-06	0.000252126

0.207415	0.0320703	-0.005573	7.48E-06	5.25E-06	0.000265451
0.207752	0.0299783	-0.006236	7.80E-06	4.65E-06	0.000280754
0.207911	0.0283328	-0.005907	7.69E-06	4.25E-06	0.000283827
0.224823	0.0330712	-0.005633	7.98E-06	6.14E-06	0.000289793
0.225232	0.0309001	-0.006469	8.45E-06	5.01E-06	0.000302818
0.225435	0.0291714	-0.006316	8.58E-06	3.97E-06	0.000307509
0.22566	0.027359	-0.006343	9.32E-06	4.19E-06	0.000312098
0.208228	0.0263208	-0.006382	8.09E-06	1.94E-06	0.000288142
0.242398	0.033884	-0.006124	8.74E-06	5.47E-06	0.000289384
0.242769	0.0318328	-0.006686	1.03E-05	4.54E-06	0.000313325
0.242842	0.0303842	-0.005906	1.06E-05	4.48E-06	0.000322192
0.243197	0.0283282	-0.006465	1.06E-05	3.67E-06	0.000325269
0.26002	0.0347638	-0.006514	1.02E-05	4.85E-06	0.000295197
0.260114	0.033272	-0.005823	1.26E-05	5.54E-06	0.000344214
0.260398	0.0314198	-0.005933	1.23E-05	5.17E-06	0.000340839
0.260849	0.0292444	-0.006753	1.12E-05	5.34E-06	0.000340686
0.277617	0.0358441	-0.006431	1.45E-05	6.75E-06	0.000373834
0.277876	0.0340279	-0.006453	1.48E-05	6.17E-06	0.000379641
0.278105	0.0322932	-0.006291	1.23E-05	5.71E-06	0.000348423
0.278245	0.0307182	-0.005772	1.15E-05	6.58E-06	0.000339016
0.295107	0.0371701	-0.005801	1.48E-05	5.99E-06	0.000376589
0.295392	0.035355	-0.005817	1.52E-05	7.14E-06	0.000374871
0.295957	0.0330613	-0.006894	1.29E-05	5.44E-06	0.000339541
0.296054	0.0315625	-0.006195	1.23E-05	5.19E-06	0.000328006
0.31329	0.0361377	-0.006406	1.55E-05	7.56E-06	0.000345411
0.31356	0.0343727	-0.006332	1.37E-05	6.30E-06	0.000326649
0.313487	0.033149	-0.005012	1.33E-05	4.51E-06	0.000315686
0.330878	0.0375253	-0.005647	1.50E-05	8.02E-06	0.000327128
0.331389	0.0354037	-0.006364	1.49E-05	7.45E-06	0.000320185
0.331577	0.0337372	-0.006017	1.39E-05	6.07E-06	0.000306657
0.348737	0.0385821	-0.005674	1.49E-05	7.67E-06	0.000290119
0.349188	0.0365629	-0.006114	1.56E-05	8.84E-06	0.000279072
0.349289	0.0350679	-0.005415	1.54E-05	6.76E-06	0.000281336
0.34974	0.0330462	-0.00585	1.44E-05	6.95E-06	0.000292722
0.331933	0.0318497	-0.0062	1.35E-05	6.20E-06	0.000324513
0.366769	0.03814	-0.004972	1.58E-05	9.27E-06	0.00025363
0.367461	0.0358052	-0.006105	1.44E-05	6.48E-06	0.000234448
0.367408	0.0344994	-0.004967	1.35E-05	5.18E-06	0.000227781
0.384788	0.0391654	-0.005033	1.47E-05	8.39E-06	0.000219376
0.38514	0.0373094	-0.005119	1.38E-05	6.64E-06	0.000188795
0.38571	0.0351817	-0.00581	1.38E-05	6.71E-06	0.000187811
0.402797	0.0402781	-0.0049	1.42E-05	8.22E-06	0.000169624
0.402812	0.0388875	-0.003932	1.38E-05	7.57E-06	0.000145527
0.403553	0.0365655	-0.005052	1.53E-05	7.66E-06	0.000147433
0.421196	0.0396366	-0.004649	1.45E-05	7.78E-06	7.64E-05
0.421634	0.0376968	-0.004896	1.47E-05	6.20E-06	8.20E-05
0.422023	0.035836	-0.004962	1.45E-05	5.34E-06	8.58E-05

0.403976	0.0346266	-0.005302	1.67E-05	7.66E-06	0.000160454	
0.439381	0.0407036	-0.004652	1.54E-05	8.77E-06	1.46E-05	
0.439522	0.0391486	-0.004024	1.56E-05	6.74E-06	1.45E-05	
0.440052	0.0371461	-0.004437	1.39E-05	4.04E-06	1.43E-05	
0.457273	0.0422047	-0.00368	1.65E-05	6.95E-06	5.86E-05	
0.457618	0.040431	-0.003572	1.70E-05	5.05E-06	5.60E-05	
0.457862	0.038757	-0.003197	1.64E-05	3.38E-06	5.37E-05	
0.4754	0.0434821	-0.003211	1.76E-05	4.55E-06	0.000127503	
0.475997	0.0414391	-0.003698	1.66E-05	3.64E-06	0.000124144	
0.475898	0.040156	-0.002468	1.88E-05	4.05E-06	0.000129535	
0.494054	0.0428907	-0.002864	1.86E-05	3.97E-06	0.000198463	
0.494473	0.04103	-0.002918	2.02E-05	4.09E-06	0.000214759	
0.495051	0.0390051	-0.003299	1.67E-05	4.84E-06	0.000204887	
0.476912	0.0376378	-0.003971	1.62E-05	5.83E-06	0.000130486	
0.511841	0.0446297	-0.001332	2.04E-05	4.16E-06	0.000272057	
0.512691	0.0423711	-0.002317	2.11E-05	2.68E-06	0.000297886	
0.513209	0.0404342	-0.002528	1.56E-05	3.56E-06	0.000273536	
0.530638	0.0454296	-0.002005	1.86E-05	1.52E-06	0.000314071	
0.530866	0.0437902	-0.001533	2.04E-05	1.55E-06	0.000354367	
0.531398	0.0418508	-0.001737	1.67E-05	3.19E-06	0.000346605	
0.54901	0.0453045	-0.00057	2.10E-05	5.70E-07	0.000442157	
0.549672	0.0432508	-0.001019	1.89E-05	2.72E-06	0.000405054	
0.551405	0.0417363	-0.000494	1.84E-05	2.70E-06	0.000427276	
0.551652	0.0411817	-0.000846	1.93E-05	1.15E-06	0.000471474	
0.55042	0.0408342	-0.001501	2.17E-05	2.15E-06	0.000483467	
0.5502	0.0413181	-0.001224	2.06E-05	3.13E-06	0.000446094	
0.551135	0.0434039	-0.000883	1.76E-05	3.23E-06	0.000435757	
0.55059	0.0453314	-0.000681	2.04E-05	2.03E-06	0.000485383	
0.548519	0.0470298	-0.000371	2.08E-05	1.33E-06	0.000454118	
0.550296	0.0468421	-0.000889	2.13E-05	1.86E-06	0.000523133	
0.536792	0.0405892	-0.001111	2.14E-05	1.82E-06	0.000433396	
0.531577	0.0403667	-0.001233	1.75E-05	2.93E-06	0.000337476	
0.541746	0.046761	-0.000522	1.69E-05	7.13E-07	0.00034863	
0.530576	0.045748	-0.002055	1.60E-05	2.18E-06	0.000295823	
0.513462	0.039239	-0.002475	1.47E-05	3.31E-06	0.000264553	
0.511757	0.0454073	-0.001594	1.80E-05	3.41E-06	0.00026108	
0.494886	0.0386306	-0.002498	1.43E-05	5.14E-06	0.000196452	
0.493526	0.0445186	-0.002399	1.70E-05	2.52E-06	0.00019504	
0.476927	0.0374473	-0.00388	1.55E-05	6.33E-06	0.000134689	
0.480228	0.0439778	-0.002751	1.76E-05	4.00E-06	0.000154054	
0.475355	0.0436518	-0.003188	1.67E-05	6.25E-06	0.000126039	
0.467449	0.037303	-0.00354	1.67E-05	5.96E-06	0.000100913	
0.458391	0.0369414	-0.003692	1.59E-05	4.03E-06	5.01E-05	
0.457006	0.0430438	-0.003343	1.49E-05	8.69E-06	5.74E-05	
0.440404	0.0358787	-0.004781	1.29E-05	3.44E-06	1.43E-05	
0.438728	0.0424148	-0.003574	1.35E-05	9.38E-06	1.63E-05	
0.421969	0.0354445	-0.00446	1.40E-05	4.57E-06	8.66E-05	

0.420559	0.0417591	-0.003863	1.33E-05	7.24E-06	7.62E-05
0.403773	0.0347837	-0.004638	1.71E-05	7.56E-06	0.000160574
0.419034	0.0416055	-0.004114	1.40E-05	7.09E-06	0.000141782
0.402521	0.0410067	-0.004401	1.57E-05	7.66E-06	0.000183084
0.398523	0.0345196	-0.004842	1.63E-05	7.99E-06	0.000188117
0.385733	0.0340306	-0.005058	1.40E-05	6.44E-06	0.000197574
0.384517	0.0402881	-0.004821	1.65E-05	9.19E-06	0.000227026
0.367529	0.0335867	-0.004747	1.41E-05	5.07E-06	0.000232454
0.366318	0.039944	-0.004436	1.57E-05	1.09E-05	0.000260006
0.349839	0.0324945	-0.005913	1.55E-05	6.80E-06	0.000304597
0.358697	0.0390252	-0.005979	1.43E-05	8.76E-06	0.000271597
0.34861	0.0389826	-0.005436	1.48E-05	7.66E-06	0.000297075
0.331962	0.0317671	-0.006267	1.48E-05	7.49E-06	0.000332029
0.330773	0.0383051	-0.005799	1.56E-05	8.03E-06	0.000335337
0.330537	0.0317064	-0.006315	1.27E-05	5.85E-06	0.000318671
0.314073	0.0311836	-0.006341	1.23E-05	4.75E-06	0.000311373
0.312973	0.0376775	-0.006051	1.40E-05	7.79E-06	0.000320368
0.296187	0.0306736	-0.006211	1.37E-05	6.54E-06	0.000346132
0.296138	0.036934	-0.006438	1.14E-05	3.01E-06	0.000327701
0.300388	0.0371867	-0.006324	1.08E-05	4.96E-06	0.00029217
0.287625	0.0301979	-0.006649	1.39E-05	9.11E-06	0.000368249
0.278399	0.0299921	-0.006081	1.17E-05	7.61E-06	0.000351215
0.277559	0.0361084	-0.006339	1.36E-05	5.48E-06	0.000345923
0.26063	0.0293162	-0.005602	1.03E-05	4.96E-06	0.000330079
0.259987	0.0351749	-0.006594	9.63E-06	3.49E-06	0.000278012
0.243195	0.0281137	-0.006256	1.01E-05	4.08E-06	0.000316034
0.242253	0.0346929	-0.005848	8.74E-06	3.96E-06	0.000285595
0.225689	0.0271771	-0.006366	9.61E-06	5.11E-06	0.000306954
0.224878	0.033621	-0.006427	8.15E-06	6.16E-06	0.000289378
0.208301	0.0261156	-0.006721	8.21E-06	2.70E-06	0.000289565
0.207402	0.0328801	-0.006274	6.93E-06	5.38E-06	0.000257722
0.20286	0.0260845	-0.006197	7.80E-06	1.69E-06	0.000280202
0.190867	0.0253227	-0.006529	6.99E-06	4.40E-06	0.000256671
0.190008	0.032181	-0.006005	5.77E-06	2.85E-06	0.000225085
0.173422	0.0247309	-0.005866	3.85E-06	5.07E-06	0.000223674
0.172574	0.0317482	-0.00519	3.44E-06	2.33E-06	0.000204382
0.156187	0.0237525	-0.006097	1.96E-06	4.30E-06	0.000180155
0.155616	0.0305967	-0.005963	2.83E-06	2.93E-06	0.000174276
0.155383	0.0308239	-0.005437	2.56E-06	2.81E-06	0.000152773
0.13892	0.0230574	-0.005677	1.09E-06	1.13E-06	0.000127744
0.138173	0.0301677	-0.005138	2.58E-06	1.16E-05	0.000117645
0.12178	0.0221788	-0.005705	3.80E-06	1.03E-05	9.26E-05
0.121135	0.0291383	-0.005636	2.34E-06	2.13E-05	7.92E-05
0.104646	0.0215435	-0.005173	1.20E-05	2.21E-05	6.08E-05
0.103997	0.0287326	-0.004767	1.24E-06	1.10E-05	5.80E-05
0.0875995	0.0208753	-0.004723	1.10E-05	2.72E-05	3.29E-05
0.087066	0.0278018	-0.005068	1.06E-06	1.16E-06	3.52E-05

0.0705839	0.0203378	-0.003996	2.37E-06	1.49E-05	1.36E-05
0.0700754	0.0273706	-0.004276	1.64E-06	4.22E-06	1.81E-05
0.0537386	0.0194061	-0.004175	3.48E-06	5.47E-06	8.34E-06
0.0531969	0.0269077	-0.00357	6.83E-06	1.26E-05	8.62E-06
0.052676	0.0202777	-0.003442	2.83E-06	6.69E-06	8.76E-06
0.052839	0.0197154	-0.003391	1.33E-05	1.63E-05	1.17E-05
0.0522238	0.0219251	-0.00368	3.99E-06	5.35E-07	8.71E-06
0.0517124	0.0239318	-0.003094	6.45E-07	3.39E-06	8.14E-06
0.0512993	0.0252456	-0.004055	6.17E-06	1.31E-05	8.37E-06
0.0509505	0.0265078	-0.004215	1.24E-05	2.36E-05	1.14E-05

Source File

Name: beam0lb\_neg30deg\_fast\_168.8Hz

Signal: FFT - Vib 3D Velocity - Magnitude

dB-Reference: 0 dB = 1 m/s

Band No.: 1

Frequency: 168.8 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0533167	0.0254045	-0.003977	1.43E-05	2.15E-05	9.39E-05
0.0702199	0.0260086	-0.004857	2.10E-05	2.72E-05	0.000225172
0.0702813	0.0245392	-0.004182	3.49E-05	1.90E-05	0.000230704
0.05339	0.0238539	-0.003484	2.05E-05	1.98E-05	9.35E-05
0.0703886	0.0229198	-0.003873	3.94E-05	8.50E-06	0.000235496
0.0536137	0.0214872	-0.004809	2.00E-05	1.07E-05	9.62E-05
0.0705848	0.0208288	-0.004553	3.18E-05	1.42E-05	0.000203809
0.0536746	0.0201032	-0.003948	1.86E-05	1.58E-05	9.24E-05
0.087143	0.0268674	-0.005188	2.52E-05	2.02E-05	0.000448941
0.087175	0.0256043	-0.004058	3.76E-05	1.89E-05	0.000454842
0.0873346	0.0237775	-0.004202	4.01E-05	1.14E-05	0.000444668
0.087526	0.0217269	-0.00479	5.94E-05	3.41E-05	0.000418974
0.104084	0.0279816	-0.004968	1.93E-05	2.07E-05	0.000719267
0.104201	0.0263038	-0.004745	2.69E-05	1.85E-05	0.000722108
0.104384	0.0244207	-0.004971	2.66E-05	1.88E-05	0.000723726
0.104556	0.0225918	-0.005111	2.55E-05	1.56E-05	0.000711972
0.121112	0.0289379	-0.005106	1.11E-05	2.03E-05	0.0010091
0.121275	0.0271784	-0.005061	1.25E-05	2.08E-05	0.0010113
0.121375	0.0255815	-0.004654	1.22E-05	1.65E-05	0.00101024
0.12163	0.0234909	-0.005328	9.81E-06	1.17E-05	0.00101199
0.138249	0.0297812	-0.005505	4.48E-06	2.43E-05	0.00127695
0.138447	0.0279387	-0.00564	3.34E-06	2.29E-05	0.00128763
0.138616	0.0261345	-0.005682	5.46E-06	1.91E-05	0.00128672
0.138788	0.0243722	-0.005631	4.03E-06	1.47E-05	0.00128312

0.155425	0.0307017	-0.005708	1.69E-05	2.49E-05	0.00146857
0.155593	0.0289808	-0.005569	1.96E-05	2.73E-05	0.00152261
0.155788	0.027135	-0.0057	2.02E-05	2.36E-05	0.00153453
0.15604	0.0251667	-0.006098	2.01E-05	2.25E-05	0.00153515
0.172769	0.030128	-0.005314	3.42E-05	2.97E-05	0.00169282
0.173112	0.0279144	-0.006254	3.51E-05	2.93E-05	0.00170141
0.173213	0.0263949	-0.005658	3.56E-05	2.83E-05	0.00169825
0.190087	0.031026	-0.005582	5.03E-05	3.61E-05	0.00176031
0.190354	0.0290989	-0.005887	5.11E-05	3.72E-05	0.00174752
0.190623	0.0271276	-0.00628	5.11E-05	3.41E-05	0.00173005
0.207415	0.0320703	-0.005573	5.78E-05	4.41E-05	0.00169135
0.207752	0.0299783	-0.006236	6.01E-05	4.25E-05	0.0016869
0.207911	0.0283328	-0.005907	6.09E-05	3.89E-05	0.00167048
0.224823	0.0330712	-0.005633	6.05E-05	4.24E-05	0.00151257
0.225232	0.0309001	-0.006469	6.47E-05	4.22E-05	0.00150083
0.225435	0.0291714	-0.006316	6.32E-05	4.12E-05	0.00149729
0.22566	0.027359	-0.006343	6.33E-05	4.40E-05	0.00149506
0.208228	0.0263208	-0.006382	6.16E-05	4.01E-05	0.00166352
0.242398	0.033884	-0.006124	6.08E-05	4.55E-05	0.0012449
0.242769	0.0318328	-0.006686	6.48E-05	4.77E-05	0.00122388
0.242842	0.0303842	-0.005906	6.34E-05	4.82E-05	0.00121252
0.243197	0.0283282	-0.006465	6.29E-05	4.87E-05	0.0012104
0.26002	0.0347638	-0.006514	5.30E-05	5.14E-05	0.000896116
0.260114	0.033272	-0.005823	5.80E-05	5.37E-05	0.000880872
0.260398	0.0314198	-0.005933	5.76E-05	5.64E-05	0.00087709
0.260849	0.0292444	-0.006753	6.09E-05	5.80E-05	0.000879025
0.277617	0.0358441	-0.006431	4.80E-05	5.68E-05	0.000526196
0.277876	0.0340279	-0.006453	4.97E-05	5.84E-05	0.000517038
0.278105	0.0322932	-0.006291	4.77E-05	5.93E-05	0.000516518
0.278245	0.0307182	-0.005772	5.52E-05	6.69E-05	0.000519464
0.295107	0.0371701	-0.005801	4.45E-05	7.04E-05	0.000213029
0.295392	0.035355	-0.005817	4.64E-05	6.48E-05	0.000128235
0.295957	0.0330613	-0.006894	4.52E-05	6.52E-05	0.000118951
0.296054	0.0315625	-0.006195	5.06E-05	6.83E-05	0.000116976
0.31329	0.0361377	-0.006406	3.56E-05	6.75E-05	0.00027466
0.31356	0.0343727	-0.006332	3.38E-05	6.87E-05	0.000285306
0.313487	0.033149	-0.005012	4.12E-05	7.06E-05	0.00029116
0.330878	0.0375253	-0.005647	2.92E-05	6.93E-05	0.000661857
0.331389	0.0354037	-0.006364	2.47E-05	7.14E-05	0.000675922
0.331577	0.0337372	-0.006017	2.63E-05	6.85E-05	0.000727108
0.348737	0.0385821	-0.005674	2.72E-05	6.91E-05	0.000956947
0.349188	0.0365629	-0.006114	1.99E-05	7.25E-05	0.00107285
0.349289	0.0350679	-0.005415	1.62E-05	6.89E-05	0.00110945
0.34974	0.0330462	-0.00585	1.79E-05	6.55E-05	0.00106811
0.331933	0.0318497	-0.0062	2.52E-05	6.52E-05	0.000751371
0.366769	0.03814	-0.004972	1.68E-05	7.02E-05	0.00130238
0.367461	0.0358052	-0.006105	1.33E-05	6.84E-05	0.00133395

0.367408	0.0344994	-0.004967	1.54E-05	6.51E-05	0.00127873
0.384788	0.0391654	-0.005033	1.19E-05	6.15E-05	0.00141056
0.38514	0.0373094	-0.005119	9.81E-06	5.96E-05	0.00141825
0.38571	0.0351817	-0.00581	9.94E-06	5.96E-05	0.00141079
0.402797	0.0402781	-0.0049	8.93E-06	5.51E-05	0.00143498
0.402812	0.0388875	-0.003932	5.44E-06	5.11E-05	0.00142782
0.403553	0.0365655	-0.005052	4.40E-06	5.01E-05	0.00143046
0.421196	0.0396366	-0.004649	3.18E-06	4.08E-05	0.00134672
0.421634	0.0376968	-0.004896	3.43E-06	3.80E-05	0.00133691
0.422023	0.035836	-0.004962	2.72E-06	3.84E-05	0.00133535
0.403976	0.0346266	-0.005302	3.01E-06	4.91E-05	0.00143133
0.439381	0.0407036	-0.004652	3.28E-06	2.75E-05	0.00111879
0.439522	0.0391486	-0.004024	3.96E-06	2.16E-05	0.00110903
0.440052	0.0371461	-0.004437	6.95E-06	2.10E-05	0.00110395
0.457273	0.0422047	-0.00368	3.72E-06	9.61E-06	0.000782579
0.457618	0.040431	-0.003572	6.75E-06	1.01E-05	0.000771962
0.457862	0.038757	-0.003197	1.50E-05	1.06E-05	0.000762029
0.4754	0.0434821	-0.003211	5.74E-06	2.31E-05	0.000432219
0.475997	0.0414391	-0.003698	8.69E-06	3.00E-05	0.000338499
0.475898	0.040156	-0.002468	1.83E-05	2.96E-05	0.000322753
0.494054	0.0428907	-0.002864	1.62E-05	5.18E-05	0.000175012
0.494473	0.04103	-0.002918	1.84E-05	5.55E-05	0.000193582
0.495051	0.0390051	-0.003299	1.24E-05	5.55E-05	0.000193385
0.476912	0.0376378	-0.003971	1.32E-05	3.40E-05	0.000289984
0.511841	0.0446297	-0.001332	3.00E-05	7.97E-05	0.000732045
0.512691	0.0423711	-0.002317	3.15E-05	8.19E-05	0.000751505
0.513209	0.0404342	-0.002528	2.58E-05	8.02E-05	0.000751224
0.530638	0.0454296	-0.002005	2.33E-05	9.77E-05	0.00122789
0.530866	0.0437902	-0.001533	3.46E-05	0.00010169	0.00133623
0.531398	0.0418508	-0.001737	3.54E-05	0.000103097	0.00133402
0.54901	0.0453045	-0.00057	4.34E-05	0.00011751	0.00185148
0.549672	0.0432508	-0.001019	3.98E-05	0.000118253	0.00186162
0.551405	0.0417363	-0.000494	4.46E-05	0.000127885	0.00200985
0.551652	0.0411817	-0.000846	4.51E-05	0.000127924	0.00202333
0.55042	0.0408342	-0.001501	4.06E-05	0.00011922	0.00188671
0.5502	0.0413181	-0.001224	3.95E-05	0.000120638	0.00189203
0.551135	0.0434039	-0.000883	4.40E-05	0.000126071	0.00199775
0.55059	0.0453314	-0.000681	4.28E-05	0.000123226	0.00198552
0.548519	0.0470298	-0.000371	3.87E-05	0.000115565	0.00182238
0.550296	0.0468421	-0.000889	3.96E-05	0.000123076	0.00197335
0.536792	0.0405892	-0.001111	3.98E-05	0.00011294	0.00164498
0.531577	0.0403667	-0.001233	3.69E-05	9.94E-05	0.00123925
0.541746	0.046761	-0.000522	2.31E-05	0.00010357	0.00144686
0.530576	0.045748	-0.002055	2.07E-05	9.51E-05	0.00119958
0.513462	0.039239	-0.002475	2.44E-05	7.82E-05	0.000750669
0.511757	0.0454073	-0.001594	2.89E-05	7.38E-05	0.000718398
0.494886	0.0386306	-0.002498	9.25E-06	5.46E-05	0.000192654

0.493526	0.0445186	-0.002399	1.71E-05	4.56E-05	0.000164555
0.476927	0.0374473	-0.00388	8.79E-06	3.58E-05	0.000281032
0.480228	0.0439778	-0.002751	8.97E-06	2.89E-05	0.000258193
0.475355	0.0436518	-0.003188	7.70E-06	2.07E-05	0.000448902
0.467449	0.037303	-0.00354	1.17E-05	2.52E-05	0.000518521
0.458391	0.0369414	-0.003692	1.25E-05	1.07E-05	0.000806172
0.457006	0.0430438	-0.003343	5.66E-06	9.90E-06	0.000784521
0.440404	0.0358787	-0.004781	4.63E-06	2.27E-05	0.00110376
0.438728	0.0424148	-0.003574	4.04E-06	2.92E-05	0.00111456
0.421969	0.0354445	-0.00446	2.27E-06	4.00E-05	0.00133154
0.420559	0.0417591	-0.003863	2.49E-06	4.24E-05	0.00134118
0.403773	0.0347837	-0.004638	3.18E-06	5.06E-05	0.00143247
0.419034	0.0416055	-0.004114	6.50E-06	5.28E-05	0.00142779
0.402521	0.0410067	-0.004401	1.04E-05	5.67E-05	0.0014328
0.398523	0.0345196	-0.004842	4.30E-06	5.54E-05	0.0014423
0.385733	0.0340306	-0.005058	8.86E-06	6.30E-05	0.00140654
0.384517	0.0402881	-0.004821	1.52E-05	6.25E-05	0.00139042
0.367529	0.0335867	-0.004747	1.61E-05	6.73E-05	0.00127513
0.366318	0.039944	-0.004436	2.04E-05	6.99E-05	0.00126532
0.349839	0.0324945	-0.005913	1.99E-05	6.53E-05	0.00102239
0.358697	0.0390252	-0.005979	2.66E-05	6.92E-05	0.00106292
0.34861	0.0389826	-0.005436	2.79E-05	6.74E-05	0.000938435
0.331962	0.0317671	-0.006267	2.67E-05	6.58E-05	0.000762869
0.330773	0.0383051	-0.005799	3.02E-05	6.62E-05	0.00065425
0.330537	0.0317064	-0.006315	3.08E-05	6.89E-05	0.00061059
0.314073	0.0311836	-0.006341	4.04E-05	6.97E-05	0.00028609
0.312973	0.0376775	-0.006051	3.31E-05	6.21E-05	0.000290226
0.296187	0.0306736	-0.006211	4.51E-05	6.51E-05	7.78E-05
0.296138	0.036934	-0.006438	3.48E-05	7.16E-05	0.000102331
0.300388	0.0371867	-0.006324	3.26E-05	6.17E-05	2.79E-05
0.287625	0.0301979	-0.006649	4.75E-05	6.24E-05	0.000320236
0.278399	0.0299921	-0.006081	5.80E-05	6.54E-05	0.000562358
0.277559	0.0361084	-0.006339	4.79E-05	5.18E-05	0.000627615
0.26063	0.0293162	-0.005602	6.46E-05	5.78E-05	0.000881074
0.259987	0.0351749	-0.006594	5.05E-05	4.80E-05	0.000901917
0.243195	0.0281137	-0.006256	6.35E-05	4.86E-05	0.00121221
0.242253	0.0346929	-0.005848	5.81E-05	4.44E-05	0.00125085
0.225689	0.0271771	-0.006366	6.26E-05	4.69E-05	0.00149032
0.224878	0.033621	-0.006427	5.91E-05	4.29E-05	0.00151421
0.208301	0.0261156	-0.006721	6.10E-05	4.23E-05	0.00165443
0.207402	0.0328801	-0.006274	5.62E-05	4.06E-05	0.00169229
0.20286	0.0260845	-0.006197	5.85E-05	3.63E-05	0.00169996
0.190867	0.0253227	-0.006529	5.00E-05	3.15E-05	0.00172378
0.190008	0.032181	-0.006005	4.97E-05	3.19E-05	0.00175866
0.173422	0.0247309	-0.005866	3.58E-05	2.78E-05	0.00170176
0.172574	0.0317482	-0.00519	3.54E-05	2.40E-05	0.00167683
0.156187	0.0237525	-0.006097	1.71E-05	1.96E-05	0.00153123

0.155616	0.0305967	-0.005963	2.44E-05	2.24E-05	0.0015352
0.155383	0.0308239	-0.005437	1.67E-05	2.49E-05	0.00145241
0.13892	0.0230574	-0.005677	1.49E-06	1.15E-05	0.00128015
0.138173	0.0301677	-0.005138	3.45E-06	2.39E-05	0.00127147
0.12178	0.0221788	-0.005705	1.29E-05	1.16E-05	0.00100945
0.121135	0.0291383	-0.005636	1.09E-05	2.05E-05	0.00100622
0.104646	0.0215435	-0.005173	5.31E-05	3.89E-05	0.000708872
0.103997	0.0287326	-0.004767	2.13E-05	1.76E-05	0.000716816
0.0875995	0.0208753	-0.004723	8.69E-05	6.85E-05	0.000387912
0.087066	0.0278018	-0.005068	2.10E-05	2.14E-05	0.000446969
0.0705839	0.0203378	-0.003996	5.38E-05	4.33E-05	0.000178047
0.0700754	0.0273706	-0.004276	1.55E-05	2.61E-05	0.000227015
0.0537386	0.0194061	-0.004175	8.08E-05	9.56E-05	5.75E-05
0.0531969	0.0269077	-0.00357	1.22E-05	1.74E-05	9.65E-05
0.052676	0.0202777	-0.003442	8.25E-05	8.57E-05	4.44E-05
0.052839	0.0197154	-0.003391	0.000186171	0.000198056	7.01E-05
0.0522238	0.0219251	-0.00368	1.54E-05	1.15E-05	6.02E-05
0.0517124	0.0239318	-0.003094	1.36E-05	1.69E-05	5.59E-05
0.0512993	0.0252456	-0.004055	1.22E-05	9.43E-06	5.51E-05
0.0509505	0.0265078	-0.004215	9.35E-06	8.73E-06	5.71E-05

Source File beam0lb\_neg45deg\_fast\_60.63Hz

Name:

Signal: FFT - Vib 3D Velocity - Magnitude

dB-Reference: 0 dB = 1 m/s

Band No.: 1

Frequency: 60.63 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0692212	0.0193962	-0.002302	4.61E-06	2.94E-06	1.31E-05
0.0693261	0.0181367	-0.002257	4.35E-06	6.07E-07	1.47E-05
0.0694843	0.0166934	-0.002563	6.08E-06	2.70E-06	1.83E-05
0.0695538	0.0156025	-0.002155	1.17E-05	6.85E-06	2.10E-05
0.0696241	0.0144963	-0.001738	1.40E-05	2.25E-05	2.09E-05
0.0812174	0.0203633	-0.001528	5.02E-06	3.98E-06	1.99E-05
0.0814032	0.0187667	-0.002204	4.95E-06	5.22E-06	1.99E-05
0.0815515	0.0173221	-0.00251	4.69E-06	3.60E-06	2.22E-05
0.0816518	0.0160882	-0.002364	6.12E-06	5.49E-06	2.18E-05
0.081768	0.0148714	-0.002224	6.14E-06	4.39E-06	1.97E-05
0.0934909	0.019467	-0.00197	5.01E-06	6.35E-06	2.54E-05
0.0935522	0.0184178	-0.001472	4.33E-06	6.42E-06	2.66E-05
0.0936661	0.0171421	-0.001416	3.02E-06	1.06E-05	2.60E-05
0.0939043	0.0153584	-0.002439	3.40E-06	8.62E-06	2.27E-05
0.0938004	0.0149713	-0.000491	4.68E-06	2.87E-06	2.62E-05
0.105523	0.0204353	-0.001211	4.23E-06	7.74E-06	3.14E-05
0.105714	0.0189508	-0.001604	3.70E-06	5.80E-06	3.03E-05

0.105943	0.0172529	-0.002448	3.00E-06	3.03E-06	3.17E-05
0.105994	0.0162294	-0.00185	3.62E-06	2.57E-06	3.67E-05
0.106078	0.0150951	-0.001529	4.92E-06	2.62E-06	4.72E-05
0.117761	0.020803	-0.00171	3.86E-06	7.73E-06	4.75E-05
0.117895	0.0194847	-0.001744	3.72E-06	5.53E-06	4.63E-05
0.11804	0.018124	-0.001866	3.83E-06	1.37E-06	4.84E-05
0.118066	0.0172002	-0.001096	4.41E-06	2.42E-06	5.52E-05
0.118295	0.0155432	-0.001845	5.05E-06	4.30E-06	6.28E-05
0.118263	0.0148157	-0.000617	4.40E-06	6.19E-06	6.60E-05
0.130088	0.0201055	-0.001709	3.49E-06	6.31E-06	6.21E-05
0.130126	0.0191229	-0.001022	3.79E-06	2.67E-06	6.80E-05
0.130365	0.0174828	-0.001778	4.41E-06	3.30E-06	7.48E-05
0.130453	0.0163318	-0.001448	4.00E-06	6.25E-06	7.92E-05
0.130528	0.015223	-0.001028	5.20E-06	8.19E-06	8.20E-05
0.142155	0.0211883	-0.000692	3.54E-06	1.03E-05	8.00E-05
0.142325	0.0197858	-0.000903	3.72E-06	8.03E-06	8.09E-05
0.142415	0.0186348	-0.000574	4.41E-06	5.91E-06	8.41E-05
0.142655	0.0170804	-0.001146	4.20E-06	7.72E-06	8.45E-05
0.142678	0.0161398	-0.000367	3.21E-06	3.36E-06	8.72E-05
0.142834	0.0147777	-0.000483	3.49E-06	4.42E-06	9.19E-05
0.154532	0.0205356	-0.000609	4.48E-06	1.10E-05	9.90E-05
0.154695	0.0191743	-0.000727	4.10E-06	1.03E-05	0.000101949
0.154959	0.0175622	-0.001381	3.42E-06	1.02E-05	0.00010099
0.154994	0.0165782	-0.00069	2.89E-06	7.08E-06	0.000102335
0.155268	0.0148939	-0.001529	3.59E-06	4.85E-06	0.000108407
0.166672	0.0215657	0.0003157	4.88E-06	2.51E-06	0.000124451
0.167002	0.0197596	-0.000795	4.23E-06	1.47E-06	0.000121119
0.167096	0.0186071	-0.000463	3.08E-06	4.89E-06	0.000115097
0.167189	0.0174547	-0.000131	3.37E-06	4.52E-06	0.000117447
0.167312	0.0162182	2.38E-05	4.26E-06	6.14E-06	0.000118936
0.167301	0.0153608	0.0009843	4.42E-06	6.34E-06	0.000120902
0.179021	0.0220256	-2.90E-05	3.69E-06	2.02E-06	0.000133299
0.179133	0.0208749	0.0003041	3.21E-06	1.26E-06	0.000129281
0.179275	0.0195967	0.0003678	2.93E-06	2.04E-06	0.000127747
0.179543	0.0179828	-0.000283	3.14E-06	4.80E-06	0.000136545
0.1797	0.0166615	-0.000306	3.92E-06	4.14E-06	0.000136048
0.179686	0.0158025	0.0006547	3.78E-06	4.35E-06	0.000133488
0.191353	0.0217381	0.0008581	2.68E-06	1.37E-06	0.000137245
0.191582	0.0202946	0.0005674	2.39E-06	2.06E-06	0.000142055
0.191745	0.0189738	0.0005438	2.83E-06	3.64E-06	0.000153496
0.191956	0.0175268	0.0002536	3.01E-06	1.83E-06	0.000151166
0.1922	0.0160108	-0.000221	2.58E-06	9.91E-07	0.000145662
0.203711	0.0223989	0.0009648	2.63E-06	7.90E-06	0.000158539
0.203776	0.0213284	0.0014768	2.65E-06	6.47E-06	0.000160959
0.204063	0.0197152	0.0008297	2.63E-06	5.16E-06	0.000164904
0.204162	0.0185609	0.0011653	2.41E-06	1.71E-06	0.000159972
0.204397	0.0170873	0.0007808	2.12E-06	1.89E-06	0.000154175
0.204632	0.015597	0.0004054	2.17E-06	2.73E-06	0.000157188
0.216163	0.0219033	0.0013978	2.17E-06	6.08E-06	0.000177829
0.216532	0.0201234	0.0003962	1.69E-06	3.26E-06	0.000172402
0.216579	0.019093	0.0010002	1.30E-06	6.55E-07	0.000166948
0.216697	0.0178958	0.0012486	1.85E-06	2.84E-06	0.000171486

0.216869	0.016573	0.0012309	1.97E-06	3.08E-06	0.000178265
0.228618	0.0224421	0.0012293	1.13E-06	2.49E-06	0.000194063
0.228608	0.0215357	0.0020998	9.07E-07	5.77E-07	0.000187321
0.228953	0.0198388	0.0012801	7.96E-07	9.43E-07	0.000187289
0.22913	0.0185157	0.0012626	1.39E-06	2.65E-06	0.000190203
0.22923	0.0174033	0.0016934	1.83E-06	3.57E-06	0.000193931
0.229481	0.0159124	0.0013225	1.73E-06	9.81E-07	0.000191021
0.24074	0.0237562	0.0027563	8.19E-07	1.91E-06	0.000195161
0.240864	0.0225588	0.0030042	9.17E-07	2.01E-06	0.000192615
0.241181	0.0209457	0.0023644	1.05E-06	2.09E-06	0.000198898
0.241301	0.0198072	0.0026984	1.54E-06	5.59E-06	0.000198513
0.24156	0.0183173	0.0023279	1.25E-06	3.85E-06	0.000195762
0.241799	0.0168681	0.0020475	9.30E-07	1.74E-06	0.000193041
0.253337	0.0231855	0.0030092	3.37E-07	3.11E-06	0.000205075
0.253504	0.021904	0.0030818	6.66E-07	3.05E-06	0.000204261
0.25375	0.0204561	0.0028006	7.74E-07	3.34E-06	0.000196314
0.254074	0.0188885	0.0022574	6.70E-07	3.54E-06	0.000193873
0.254079	0.0179352	0.0030427	6.08E-07	2.04E-06	0.000196984
0.254325	0.0164854	0.0027653	4.37E-07	2.35E-06	0.000196412
0.265638	0.0242135	0.0039071	6.40E-07	2.40E-06	0.000211696
0.266017	0.0225181	0.0030947	5.66E-07	1.02E-06	0.00020579
0.26625	0.0211111	0.002904	2.42E-07	1.09E-06	0.000196953
0.266357	0.0199523	0.003246	2.78E-07	1.56E-06	0.000204345
0.266631	0.0184612	0.0028807	5.21E-07	1.08E-06	0.000216676
0.266963	0.0169041	0.002335	2.07E-07	2.23E-06	0.000211214
0.278399	0.0234229	0.0037235	1.01E-06	1.34E-06	0.000209002
0.278616	0.022057	0.0036231	9.22E-07	1.48E-06	0.000205006
0.278893	0.0206102	0.00335	4.63E-07	9.36E-07	0.000216061
0.279196	0.019093	0.0028908	2.26E-07	6.71E-07	0.000227723
0.279218	0.0180988	0.0035894	1.89E-07	2.21E-06	0.000214142
0.279327	0.0169388	0.0039353	2.94E-07	2.60E-06	0.000209997
0.29074	0.0244545	0.0046155	1.62E-06	6.00E-06	0.000220039
0.290896	0.0232121	0.0047815	1.49E-06	5.87E-06	0.000220336
0.291052	0.0219695	0.0049486	1.11E-06	3.15E-06	0.000219969
0.291491	0.0202488	0.0040531	9.02E-07	1.81E-06	0.000213836
0.291669	0.0189637	0.0041343	1.02E-06	1.45E-06	0.000194601
0.291712	0.0179272	0.0047458	1.28E-06	2.03E-06	0.000196408
0.303335	0.0241226	0.0054079	2.03E-06	6.28E-06	0.00021248
0.303655	0.0225909	0.0049592	1.87E-06	3.98E-06	0.000203325
0.303905	0.0211978	0.0047687	1.67E-06	1.42E-06	0.000193328
0.304064	0.0199535	0.0049395	1.58E-06	1.47E-06	0.000186431
0.304222	0.018709	0.0051113	1.63E-06	2.31E-06	0.000196016
0.30445	0.0173399	0.00502	2.15E-06	2.12E-06	0.000197781
0.316044	0.0236259	0.0058478	2.64E-06	3.27E-06	0.000198222
0.316325	0.0221756	0.0055789	2.45E-06	1.24E-06	0.000192882
0.31663	0.0206833	0.0052233	2.00E-06	2.10E-06	0.000196603
0.316766	0.0194949	0.0054768	2.00E-06	2.45E-06	0.000202273
0.316904	0.0182906	0.0057389	2.59E-06	2.14E-06	0.00019398
0.317065	0.0170448	0.0059141	2.85E-06	1.60E-06	0.000191302
0.328805	0.023088	0.0062014	3.16E-06	1.22E-06	0.000191318
0.329043	0.0217188	0.0061115	2.88E-06	1.55E-06	0.00019404
0.329085	0.0206784	0.0067248	2.63E-06	1.71E-06	0.000192201

0.329347	0.0192833	0.0065416	3.35E-06	1.76E-06	0.000176195
0.329659	0.017789	0.0061921	3.33E-06	1.40E-06	0.000173198
0.341074	0.0243544	0.0076171	3.33E-06	1.35E-06	0.000181114
0.34141	0.0228809	0.0072618	3.23E-06	1.81E-06	0.000181553
0.341628	0.021552	0.0072624	3.47E-06	1.81E-06	0.000181375
0.341897	0.0201405	0.0070891	4.58E-06	1.71E-06	0.000170778
0.342064	0.0189089	0.0072594	4.12E-06	2.01E-06	0.000171531
0.34251	0.0172075	0.006476	3.90E-06	3.04E-06	0.000176461
0.354029	0.0236157	0.0075368	3.46E-06	2.27E-06	0.000170827
0.354201	0.0223678	0.0077142	3.89E-06	2.57E-06	0.000169239
0.354344	0.0211766	0.0079724	5.20E-06	2.04E-06	0.000165748
0.354932	0.0192711	0.0067539	4.62E-06	1.75E-06	0.000170625
0.355068	0.0181068	0.0071133	4.25E-06	2.28E-06	0.000175496
0.355185	0.0169557	0.007462	4.49E-06	3.64E-06	0.00016767
0.366838	0.0231638	0.0080727	4.25E-06	2.19E-06	0.000147894
0.366985	0.0219553	0.0083401	5.25E-06	2.55E-06	0.000143959
0.367426	0.0203122	0.0076414	5.08E-06	1.72E-06	0.000149577
0.367626	0.0190209	0.0077367	5.06E-06	1.38E-06	0.000156222
0.367746	0.0178526	0.0080945	5.10E-06	2.26E-06	0.000151373
0.36807	0.0164152	0.0078394	4.95E-06	3.40E-06	0.000144966
0.379363	0.0241502	0.0088734	5.20E-06	1.68E-06	0.000116619
0.37965	0.0227368	0.0087069	5.41E-06	2.01E-06	0.000117623
0.379964	0.0212979	0.0084468	5.47E-06	1.20E-06	0.000121818
0.380251	0.019883	0.0082828	5.94E-06	2.01E-06	0.000123055
0.380482	0.0185654	0.0082861	6.09E-06	1.24E-06	0.000123558
0.380769	0.0171494	0.0081246	6.05E-06	2.20E-06	0.000114337
0.391985	0.0240222	0.0101038	6.25E-06	1.12E-06	0.000102995
0.392533	0.0222415	0.0091589	6.72E-06	3.21E-06	0.000101066
0.39239	0.0214977	0.0103826	7.33E-06	3.96E-06	9.83E-05
0.392795	0.0199193	0.0098746	7.59E-06	3.07E-06	9.99E-05
0.3932	0.0183556	0.0093602	7.26E-06	3.03E-06	0.000100073
0.393577	0.0168157	0.0089419	6.90E-06	2.43E-06	9.25E-05
0.405024	0.0233528	0.0102201	7.90E-06	2.89E-06	8.55E-05
0.405062	0.022319	0.0108327	8.42E-06	3.40E-06	7.97E-05
0.40536	0.0209032	0.0106743	8.14E-06	1.07E-06	7.93E-05
0.405832	0.0192579	0.0099898	8.01E-06	1.72E-06	7.95E-05
0.406101	0.0178811	0.0099207	7.64E-06	2.57E-06	7.48E-05
0.406126	0.0168912	0.0106277	7.94E-06	2.34E-06	6.99E-05
0.417517	0.0244625	0.0112744	9.50E-06	2.26E-06	6.01E-05
0.417672	0.023265	0.0115418	9.31E-06	1.67E-06	5.90E-05
0.417888	0.0219703	0.0116452	9.42E-06	3.22E-07	5.71E-05
0.418119	0.0206944	0.011746	9.18E-06	3.41E-06	5.44E-05
0.418452	0.0192522	0.0114982	9.62E-06	4.41E-06	4.88E-05
0.418786	0.0177931	0.0112596	1.06E-05	2.81E-06	4.13E-05
0.430095	0.0244965	0.0128538	1.03E-05	1.87E-06	3.63E-05
0.430587	0.0228528	0.0121749	1.06E-05	9.19E-07	2.99E-05
0.430823	0.0215597	0.0122859	1.06E-05	3.05E-06	2.66E-05
0.431163	0.0201168	0.0120408	1.08E-05	2.68E-06	2.60E-05
0.431228	0.0190392	0.0125724	1.17E-05	3.26E-06	2.29E-05
0.431538	0.0176199	0.0124237	1.19E-05	1.02E-06	1.87E-05
0.443222	0.0238437	0.012971	1.17E-05	1.43E-06	6.18E-06
0.443445	0.0225463	0.0130795	1.20E-05	2.48E-06	8.20E-07

0.443854	0.0210219	0.0126653	1.23E-05	3.67E-06	1.61E-06
0.444013	0.0198207	0.0129401	1.22E-05	2.83E-06	1.60E-06
0.444142	0.0186441	0.0133097	1.19E-05	1.56E-06	1.76E-06
0.444567	0.0171208	0.0129038	1.15E-05	4.55E-06	8.85E-06
0.455804	0.0248983	0.0139417	1.29E-05	2.26E-06	3.05E-05
0.456125	0.0234952	0.0137868	1.33E-05	2.48E-06	3.20E-05
0.456256	0.0223335	0.0141479	1.36E-05	2.45E-06	3.29E-05
0.456753	0.0207307	0.0135712	1.32E-05	4.28E-06	3.27E-05
0.457201	0.0191637	0.0130771	1.20E-05	5.75E-06	3.78E-05
0.457522	0.0177416	0.0129354	1.18E-05	5.19E-06	5.02E-05
0.469095	0.0241261	0.0138094	1.34E-05	1.11E-06	5.74E-05
0.468836	0.0234448	0.0151993	1.40E-05	1.66E-06	6.39E-05
0.469456	0.0216776	0.0142794	1.39E-05	5.56E-06	6.43E-05
0.469783	0.0202717	0.0141309	1.36E-05	3.28E-06	6.69E-05
0.470044	0.0189459	0.0141547	1.32E-05	4.02E-06	7.04E-05
0.470616	0.0172427	0.0134234	1.21E-05	9.11E-06	7.78E-05
0.48179	0.0241142	0.0153058	1.52E-05	4.98E-06	9.04E-05
0.482056	0.0227884	0.0153296	1.58E-05	2.48E-06	9.74E-05
0.482256	0.0215427	0.0155251	1.57E-05	3.44E-06	9.54E-05
0.482787	0.0198941	0.0148688	1.51E-05	6.05E-06	9.54E-05
0.483169	0.0184492	0.0146452	3.13E-06	4.07E-05	9.61E-05
0.483568	0.0169596	0.0143329	6.58E-06	3.28E-05	0.00010024
0.494531	0.0250651	0.0160076	1.96E-05	1.64E-05	0.000142073
0.494784	0.0237817	0.0161239	2.00E-05	1.41E-05	0.000139261
0.495055	0.0224544	0.0161512	1.93E-05	1.43E-05	0.000131062
0.495189	0.0212872	0.0165199	7.00E-06	4.22E-05	0.000119175
0.495561	0.0198388	0.0162942	9.04E-06	8.76E-05	0.000120667
0.495966	0.0183492	0.0159848	7.07E-06	7.63E-05	0.000119449
0.496202	0.0170604	0.0161016	6.72E-06	4.09E-05	0.000131913
0.507476	0.0248113	0.0169942	1.94E-05	8.83E-06	0.000170186
0.507647	0.0236026	0.0172786	1.88E-05	7.51E-06	0.000163891
0.508233	0.021914	0.0165457	1.82E-05	1.57E-05	0.000156463
0.508524	0.0205879	0.016583	6.51E-06	4.70E-05	0.000151339
0.508729	0.0193381	0.0167858	1.24E-05	2.66E-05	0.000160181
0.509037	0.0179676	0.0167354	1.78E-05	1.63E-05	0.000184402
0.520548	0.024435	0.0177283	1.93E-05	7.17E-06	0.000200887
0.520756	0.0231846	0.017931	2.00E-05	5.87E-06	0.000206194
0.520858	0.0220538	0.0183885	2.08E-05	1.28E-05	0.00020246
0.521295	0.0205669	0.0180909	2.01E-05	1.37E-05	0.000207843
0.52182	0.0189553	0.0175358	2.21E-05	8.37E-06	0.000216994
0.521639	0.0181447	0.0186724	2.25E-05	7.93E-06	0.000228443
0.533468	0.0242548	0.0188878	2.04E-05	1.09E-05	0.000226666
0.533462	0.0232415	0.0195998	2.08E-05	2.90E-05	0.000223925
0.533961	0.0216708	0.0191316	2.08E-05	2.42E-05	0.0002254
0.534476	0.0201191	0.0186621	2.10E-05	1.43E-05	0.000231011
0.534722	0.0188259	0.0187868	2.25E-05	7.26E-06	0.000247987
0.534823	0.0176926	0.0192496	2.39E-05	6.14E-06	0.000258185
0.546048	0.0254832	0.0201773	2.20E-05	1.44E-05	0.000253579
0.546409	0.0240713	0.0200484	2.16E-05	2.78E-05	0.00024167
0.546622	0.0228175	0.0202573	2.11E-05	2.20E-05	0.000235752
0.546888	0.0215439	0.0203804	2.19E-05	8.79E-06	0.000240346
0.547174	0.0202101	0.0204232	2.40E-05	6.86E-06	0.00027118

0.547387 0.0189557 0.0206351 2.61E-05 5.78E-06 0.000287774

Source File beam0lb\_neg45deg\_fast\_167.5Hz  
Name:  
Signal: FFT - Vib 3D Velocity - Magnitude  
dB-Reference: 0 dB = 1 m/s  
Band No.: 1  
Frequency: 167.5 Hz

Interpolated: Yes  
Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0692212	0.0193962	-0.002302	1.75E-05	3.03E-05	9.31E-05
0.0693261	0.0181367	-0.002257	1.76E-05	2.44E-05	9.14E-05
0.0694843	0.0166934	-0.002563	1.93E-05	2.08E-05	9.15E-05
0.0695538	0.0156025	-0.002155	1.84E-05	2.29E-05	8.97E-05
0.0696241	0.0144963	-0.001738	1.52E-05	2.90E-05	0.000106849
0.0812174	0.0203633	-0.001528	2.08E-05	2.92E-05	0.000139998
0.0814032	0.0187667	-0.002204	2.10E-05	2.38E-05	0.000140825
0.0815515	0.0173221	-0.00251	2.22E-05	2.44E-05	0.000140718
0.0816518	0.0160882	-0.002364	2.18E-05	2.14E-05	0.000151613
0.081768	0.0148714	-0.002224	2.03E-05	2.72E-05	0.000171177
0.0934909	0.019467	-0.00197	2.12E-05	2.65E-05	0.00019694
0.0935522	0.0184178	-0.001472	2.07E-05	2.58E-05	0.000211874
0.0936661	0.0171421	-0.001416	2.05E-05	2.54E-05	0.000210328
0.0939043	0.0153584	-0.002439	2.13E-05	2.57E-05	0.000219202
0.0938004	0.0149713	-0.000491	2.26E-05	2.66E-05	0.000221108
0.105523	0.0204353	-0.001211	1.81E-05	2.45E-05	0.000282825
0.105714	0.0189508	-0.001604	1.84E-05	2.75E-05	0.000286014
0.105943	0.0172529	-0.002448	1.85E-05	2.80E-05	0.000286895
0.105994	0.0162294	-0.00185	1.95E-05	2.90E-05	0.000284486
0.106078	0.0150951	-0.001529	2.12E-05	2.88E-05	0.000300697
0.117761	0.020803	-0.00171	1.59E-05	2.79E-05	0.00036407
0.117895	0.0194847	-0.001744	1.53E-05	2.96E-05	0.000365657
0.11804	0.018124	-0.001866	1.57E-05	3.31E-05	0.000361615
0.118066	0.0172002	-0.001096	1.78E-05	3.44E-05	0.000358252
0.118295	0.0155432	-0.001845	1.95E-05	3.27E-05	0.000365454
0.118263	0.0148157	-0.000617	2.02E-05	2.91E-05	0.00037089
0.130088	0.0201055	-0.001709	1.43E-05	3.31E-05	0.000429558
0.130126	0.0191229	-0.001022	1.50E-05	3.66E-05	0.0004417
0.130365	0.0174828	-0.001778	1.67E-05	3.48E-05	0.000440972
0.130453	0.0163318	-0.001448	1.75E-05	3.36E-05	0.000444975
0.130528	0.015223	-0.001028	1.71E-05	2.95E-05	0.000460836
0.142155	0.0211883	-0.000692	1.21E-05	3.65E-05	0.000506965
0.142325	0.0197858	-0.000903	1.25E-05	3.52E-05	0.000509987
0.142415	0.0186348	-0.000574	1.30E-05	3.53E-05	0.00050846
0.142655	0.0170804	-0.001146	1.26E-05	3.50E-05	0.000506224
0.142678	0.0161398	-0.000367	1.17E-05	3.12E-05	0.000506907
0.142834	0.0147777	-0.000483	1.26E-05	3.02E-05	0.000511891
0.154532	0.0205356	-0.000609	8.85E-06	3.59E-05	0.000555848

0.154695	0.0191743	-0.000727	8.05E-06	3.59E-05	0.000567825
0.154959	0.0175622	-0.001381	6.63E-06	3.62E-05	0.000565822
0.154994	0.0165782	-0.00069	6.37E-06	3.43E-05	0.000564757
0.155268	0.0148939	-0.001529	7.19E-06	3.21E-05	0.000574687
0.166672	0.0215657	0.0003157	5.01E-06	3.61E-05	0.000613517
0.167002	0.0197596	-0.000795	4.63E-06	3.32E-05	0.000612297
0.167096	0.0186071	-0.000463	3.63E-06	3.30E-05	0.000615814
0.167189	0.0174547	-0.000131	2.65E-06	3.22E-05	0.00061355
0.167312	0.0162182	2.38E-05	4.22E-06	3.18E-05	0.000612016
0.167301	0.0153608	0.0009843	5.63E-06	3.09E-05	0.000611179
0.179021	0.0220256	-2.90E-05	2.98E-06	3.56E-05	0.000641523
0.179133	0.0208749	0.0003041	2.98E-06	3.26E-05	0.000641592
0.179275	0.0195967	0.0003678	2.88E-06	3.17E-05	0.000645649
0.179543	0.0179828	-0.000283	2.52E-06	3.23E-05	0.000646031
0.1797	0.0166615	-0.000306	2.38E-06	3.10E-05	0.0006444
0.179686	0.0158025	0.0006547	2.82E-06	3.00E-05	0.000639851
0.191353	0.0217381	0.0008581	4.39E-06	3.28E-05	0.000649986
0.191582	0.0202946	0.0005674	5.15E-06	3.20E-05	0.000655148
0.191745	0.0189738	0.0005438	5.86E-06	3.11E-05	0.000653068
0.191956	0.0175268	0.0002536	6.46E-06	2.99E-05	0.000650467
0.1922	0.0160108	-0.000221	7.33E-06	2.94E-05	0.00064299
0.203711	0.0223989	0.0009648	7.89E-06	3.03E-05	0.00064186
0.203776	0.0213284	0.0014768	8.28E-06	3.00E-05	0.000642575
0.204063	0.0197152	0.0008297	9.88E-06	2.91E-05	0.000642128
0.204162	0.0185609	0.0011653	1.08E-05	2.82E-05	0.000641509
0.204397	0.0170873	0.0007808	1.16E-05	2.98E-05	0.00063475
0.204632	0.015597	0.0004054	1.15E-05	3.03E-05	0.000621032
0.216163	0.0219033	0.0013978	1.12E-05	3.06E-05	0.000616718
0.216532	0.0201234	0.0003962	1.30E-05	2.93E-05	0.000610218
0.216579	0.019093	0.0010002	1.51E-05	2.89E-05	0.000609609
0.216697	0.0178958	0.0012486	1.50E-05	2.99E-05	0.000597663
0.216869	0.016573	0.0012309	1.61E-05	2.92E-05	0.000578896
0.228618	0.0224421	0.0012293	1.66E-05	3.64E-05	0.000560632
0.228608	0.0215357	0.0020998	1.84E-05	3.46E-05	0.000560936
0.228953	0.0198388	0.0012801	1.88E-05	3.28E-05	0.000558687
0.22913	0.0185157	0.0012626	1.83E-05	3.10E-05	0.000555494
0.22923	0.0174033	0.0016934	1.81E-05	2.82E-05	0.000546202
0.229481	0.0159124	0.0013225	1.92E-05	2.81E-05	0.000544455
0.24074	0.0237562	0.0027563	2.23E-05	3.61E-05	0.000493136
0.240864	0.0225588	0.0030042	2.26E-05	3.54E-05	0.000493362
0.241181	0.0209457	0.0023644	2.29E-05	3.18E-05	0.000493549
0.241301	0.0198072	0.0026984	2.23E-05	3.06E-05	0.00049206
0.24156	0.0183173	0.0023279	2.25E-05	2.87E-05	0.000491399
0.241799	0.0168681	0.0020475	2.39E-05	3.03E-05	0.00047806
0.253337	0.0231855	0.0030092	2.48E-05	3.14E-05	0.00042814
0.253504	0.021904	0.0030818	2.46E-05	2.82E-05	0.000415539
0.25375	0.0204561	0.0028006	2.41E-05	2.81E-05	0.000414352
0.254074	0.018885	0.0022574	2.44E-05	2.84E-05	0.00041276
0.254079	0.0179352	0.0030427	2.48E-05	3.01E-05	0.000410572
0.254325	0.0164854	0.0027653	2.65E-05	3.12E-05	0.000409787
0.265638	0.0242135	0.0039071	2.52E-05	3.11E-05	0.000317938
0.266017	0.0225181	0.0030947	2.44E-05	2.98E-05	0.000317941

0.26625	0.021111	0.002904	2.48E-05	2.86E-05	0.000317649
0.266357	0.0199523	0.003246	2.44E-05	2.72E-05	0.000314844
0.266631	0.0184612	0.0028807	2.50E-05	2.72E-05	0.000311287
0.266963	0.0169041	0.002335	2.76E-05	2.94E-05	0.00029215
0.278399	0.0234229	0.0037235	2.63E-05	2.82E-05	0.000225437
0.278616	0.022057	0.0036231	2.68E-05	2.60E-05	0.00020575
0.278893	0.0206102	0.00335	2.63E-05	2.49E-05	0.00020411
0.279196	0.019093	0.0028908	2.64E-05	2.63E-05	0.000202605
0.279218	0.0180988	0.0035894	2.92E-05	2.95E-05	0.000203816
0.279327	0.0169388	0.0039353	3.01E-05	2.98E-05	0.00020392
0.29074	0.0244545	0.0046155	3.16E-05	2.34E-05	9.96E-05
0.290896	0.0232121	0.0047815	3.13E-05	2.20E-05	9.85E-05
0.291052	0.0219695	0.0049486	2.95E-05	2.31E-05	9.46E-05
0.291491	0.0202488	0.0040531	2.93E-05	2.57E-05	9.49E-05
0.291669	0.0189637	0.0041343	3.10E-05	2.83E-05	9.65E-05
0.291712	0.0179272	0.0047458	3.25E-05	2.64E-05	7.53E-05
0.303335	0.0241226	0.0054079	3.28E-05	2.21E-05	2.20E-05
0.303655	0.0225909	0.0049592	3.16E-05	2.26E-05	2.89E-05
0.303905	0.0211978	0.0047687	3.15E-05	2.37E-05	2.76E-05
0.304064	0.0199535	0.0049395	3.17E-05	2.43E-05	2.79E-05
0.304222	0.018709	0.0051113	3.33E-05	2.33E-05	2.91E-05
0.30445	0.0173399	0.00502	3.49E-05	2.23E-05	4.76E-05
0.316044	0.0236259	0.0058478	3.21E-05	2.27E-05	0.000117063
0.316325	0.0221756	0.0055789	3.16E-05	2.29E-05	0.000136622
0.31663	0.0206833	0.0052233	3.26E-05	2.30E-05	0.000136626
0.316766	0.0194949	0.0054768	3.47E-05	2.20E-05	0.000137521
0.316904	0.0182906	0.0057389	3.65E-05	2.29E-05	0.000137843
0.317065	0.0170448	0.0059141	3.62E-05	2.27E-05	0.00013878
0.328805	0.023088	0.0062014	3.27E-05	2.13E-05	0.00022339
0.329043	0.0217188	0.0061115	3.37E-05	2.06E-05	0.000240682
0.329085	0.0206784	0.0067248	3.60E-05	2.35E-05	0.000241583
0.329347	0.0192833	0.0065416	3.62E-05	2.51E-05	0.000243919
0.329659	0.017789	0.0061921	3.49E-05	2.55E-05	0.000261357
0.341074	0.0243544	0.0076171	3.35E-05	1.77E-05	0.000334687
0.34141	0.0228809	0.0072618	3.42E-05	1.92E-05	0.000335031
0.341628	0.021552	0.0072624	3.48E-05	2.13E-05	0.000337747
0.341897	0.0201405	0.0070891	3.51E-05	2.52E-05	0.000341082
0.342064	0.0189089	0.0072594	3.32E-05	2.44E-05	0.000342179
0.34251	0.0172075	0.006476	3.15E-05	2.28E-05	0.000366171
0.354029	0.0236157	0.0075368	3.24E-05	1.93E-05	0.000404647
0.354201	0.0223678	0.0077142	3.23E-05	2.02E-05	0.000419925
0.354344	0.0211766	0.0079724	3.13E-05	1.87E-05	0.000421003
0.354932	0.0192711	0.0067539	2.97E-05	1.85E-05	0.000421085
0.355068	0.0181068	0.0071133	2.87E-05	1.92E-05	0.0004322
0.355185	0.0169557	0.007462	2.85E-05	1.96E-05	0.000455853
0.366838	0.0231638	0.0080727	2.91E-05	1.86E-05	0.000470784
0.366985	0.0219553	0.0083401	2.79E-05	1.63E-05	0.000480102
0.367426	0.0203122	0.0076414	2.62E-05	1.65E-05	0.000480323
0.367626	0.0190209	0.0077367	2.68E-05	1.77E-05	0.000483759
0.367746	0.0178526	0.0080945	2.76E-05	1.93E-05	0.000497952
0.36807	0.0164152	0.0078394	2.76E-05	1.90E-05	0.000504094
0.379363	0.0241502	0.0088734	2.67E-05	1.56E-05	0.000523856

0.37965	0.0227368	0.0087069	2.58E-05	1.42E-05	0.000525346
0.379964	0.0212979	0.0084468	2.41E-05	1.43E-05	0.000526019
0.380251	0.019883	0.0082828	2.43E-05	1.55E-05	0.000527837
0.380482	0.0185654	0.0082861	2.56E-05	1.76E-05	0.000532892
0.380769	0.0171494	0.0081246	2.56E-05	1.82E-05	0.000539288
0.391985	0.0240222	0.0101038	2.42E-05	1.29E-05	0.000542669
0.392533	0.0222415	0.0091589	2.24E-05	1.23E-05	0.000546493
0.39239	0.0214977	0.0103826	2.13E-05	1.41E-05	0.000548466
0.392795	0.0199193	0.0098746	2.19E-05	1.53E-05	0.000549363
0.3932	0.0183556	0.0093602	2.26E-05	1.61E-05	0.000551687
0.393577	0.0168157	0.0089419	2.15E-05	1.43E-05	0.000554031
0.405024	0.0233528	0.0102201	1.90E-05	1.08E-05	0.000548297
0.405062	0.022319	0.0108327	1.73E-05	1.23E-05	0.000551258
0.40536	0.0209032	0.0106743	1.79E-05	1.40E-05	0.000550344
0.405832	0.0192579	0.0099898	1.87E-05	1.31E-05	0.000547529
0.406101	0.0178811	0.0099207	1.84E-05	1.25E-05	0.000548979
0.406126	0.0168912	0.0106277	1.62E-05	1.35E-05	0.000541154
0.417517	0.0244625	0.0112744	1.30E-05	1.03E-05	0.000525433
0.417672	0.023265	0.0115418	1.32E-05	1.08E-05	0.00052591
0.417888	0.0219703	0.0116452	1.30E-05	1.07E-05	0.000525399
0.418119	0.0206944	0.011746	1.38E-05	1.23E-05	0.000523057
0.418452	0.0192522	0.0114982	1.21E-05	1.49E-05	0.000512492
0.418786	0.0177931	0.0112596	8.83E-06	1.73E-05	0.000498223
0.430095	0.0244965	0.0128538	9.41E-06	1.04E-05	0.000486971
0.430587	0.0228528	0.0121749	8.15E-06	1.03E-05	0.000480759
0.430823	0.0215597	0.0122859	7.63E-06	1.26E-05	0.00047832
0.431163	0.0201168	0.0120408	7.39E-06	1.63E-05	0.000472132
0.431228	0.0190392	0.0125724	5.05E-06	1.85E-05	0.000462513
0.431538	0.0176199	0.0124237	4.41E-06	1.88E-05	0.000446436
0.443222	0.0238437	0.012971	4.80E-06	1.09E-05	0.000418451
0.443445	0.0225463	0.0130795	3.87E-06	1.49E-05	0.000402766
0.443854	0.0210219	0.0126653	3.51E-06	1.71E-05	0.000398905
0.444013	0.0198207	0.0129401	4.06E-06	1.89E-05	0.000394289
0.444142	0.0186441	0.0133097	3.39E-06	1.94E-05	0.000390305
0.444567	0.0171208	0.0129038	3.66E-06	1.95E-05	0.000388286
0.455804	0.0248983	0.0139417	2.17E-06	1.26E-05	0.000315012
0.456125	0.0234952	0.0137868	3.04E-06	1.49E-05	0.000313622
0.456256	0.0223335	0.0141479	6.06E-06	1.82E-05	0.00030579
0.456753	0.0207307	0.0135712	7.58E-06	2.11E-05	0.000300642
0.457201	0.0191637	0.0130771	7.09E-06	2.39E-05	0.00029686
0.457522	0.0177416	0.0129354	9.07E-06	2.47E-05	0.000276413
0.469095	0.0241261	0.0138094	6.90E-06	1.63E-05	0.000223547
0.468836	0.0234448	0.0151993	1.15E-05	1.90E-05	0.00019778
0.469456	0.0216776	0.0142794	1.48E-05	2.35E-05	0.000186164
0.469783	0.0202717	0.0141309	1.28E-05	2.78E-05	0.00018406
0.470044	0.0189459	0.0141547	1.28E-05	3.20E-05	0.000184649
0.470616	0.0172427	0.0134234	1.54E-05	3.04E-05	0.000140775
0.48179	0.0241142	0.0153058	1.59E-05	1.90E-05	9.50E-05
0.482056	0.0227884	0.0153296	1.92E-05	2.03E-05	6.50E-05
0.482256	0.0215427	0.0155251	1.77E-05	2.71E-05	6.60E-05
0.482787	0.0198941	0.0148688	1.57E-05	3.05E-05	6.68E-05
0.483169	0.0184492	0.0146452	1.88E-05	3.30E-05	4.70E-05

0.483568	0.0169596	0.0143329	2.42E-05	3.21E-05	2.95E-05
0.494531	0.0250651	0.0160076	2.33E-05	1.66E-05	7.44E-05
0.494784	0.0237817	0.0161239	2.44E-05	1.77E-05	7.87E-05
0.495055	0.0224544	0.0161512	2.32E-05	2.17E-05	8.14E-05
0.495189	0.0212872	0.0165199	2.44E-05	2.69E-05	8.29E-05
0.495561	0.0198388	0.0162942	2.67E-05	2.65E-05	8.59E-05
0.495966	0.0183492	0.0159848	3.04E-05	3.07E-05	0.000111304
0.496202	0.0170604	0.0161016	3.07E-05	3.10E-05	0.000150762
0.507476	0.0248113	0.0169942	2.96E-05	1.89E-05	0.000203983
0.507647	0.0236026	0.0172786	3.09E-05	2.38E-05	0.000232002
0.508233	0.021914	0.0165457	3.24E-05	2.27E-05	0.000236405
0.508524	0.0205879	0.016583	3.38E-05	2.28E-05	0.000236031
0.508729	0.0193381	0.0167858	3.49E-05	2.67E-05	0.000267908
0.509037	0.0179676	0.0167354	3.82E-05	2.90E-05	0.000327329
0.520548	0.024435	0.0177283	4.03E-05	2.44E-05	0.00037005
0.520756	0.0231846	0.017931	4.36E-05	2.60E-05	0.000399136
0.520858	0.0220538	0.0183885	4.35E-05	2.54E-05	0.000403253
0.521295	0.0205669	0.0180909	4.43E-05	2.92E-05	0.000409658
0.52182	0.0189553	0.0175358	4.53E-05	3.04E-05	0.000441266
0.521639	0.0181447	0.0186724	4.86E-05	3.11E-05	0.000467228
0.533468	0.0242548	0.0188878	5.02E-05	2.52E-05	0.000535526
0.533462	0.0232415	0.0195998	5.32E-05	2.62E-05	0.00056302
0.533961	0.0216708	0.0191316	5.42E-05	3.08E-05	0.000572649
0.534476	0.0201191	0.0186621	5.32E-05	3.05E-05	0.000572521
0.534722	0.0188259	0.0187868	5.46E-05	3.02E-05	0.000573809
0.534823	0.0176926	0.0192496	5.79E-05	3.01E-05	0.000576323
0.546048	0.0254832	0.0201773	5.41E-05	2.18E-05	0.000674177
0.546409	0.0240713	0.0200484	5.67E-05	2.46E-05	0.000683568
0.546622	0.0228175	0.0202573	6.04E-05	2.99E-05	0.00068635
0.546888	0.0215439	0.0203804	6.11E-05	2.95E-05	0.00069088
0.547174	0.0202101	0.0204232	6.36E-05	2.50E-05	0.000697036
0.547387	0.0189557	0.0206351	6.69E-05	2.36E-05	0.000695219

#### Source File

Name: beam1lb\_0deg\_fast\_151.3Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 151.3 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0705651	0.0191472	-0.0056867	3.06E-05	3.69E-05	0.000153738
0.0836842	0.0189807	-0.0050214	4.00E-05	6.16E-05	0.000302843
0.0836197	0.0175561	-0.0063738	4.18E-05	5.73E-05	0.00030216
0.0705203	0.0177902	-0.006242	2.98E-05	4.13E-05	0.000153684

0.0836638	0.0164281	-0.0048424	4.36E-05	5.79E-05	0.000301883
0.0705554	0.0166257	-0.0052097	3.13E-05	3.75E-05	0.000154107
0.083649	0.0150931	-0.0051978	4.60E-05	5.42E-05	0.000301273
0.0705251	0.0152572	-0.0058631	3.58E-05	3.15E-05	0.000153547
0.083628	0.0138202	-0.0051564	4.71E-05	5.52E-05	0.000300463
0.0705227	0.0140388	-0.005325	3.73E-05	3.12E-05	0.000152956
0.0836226	0.0125177	-0.0052118	4.51E-05	5.57E-05	0.000300326
0.0705079	0.0127136	-0.0055791	3.54E-05	3.35E-05	0.000152876
0.0967851	0.0188044	-0.0044556	5.01E-05	8.02E-05	0.000487188
0.0967878	0.0175544	-0.0042187	5.37E-05	7.90E-05	0.000487225
0.0967862	0.0162643	-0.0041776	5.71E-05	8.77E-05	0.000486002
0.096759	0.0149593	-0.0044352	5.93E-05	8.31E-05	0.00048589
0.0967504	0.0136356	-0.0046903	6.01E-05	7.75E-05	0.000486469
0.0967558	0.0123783	-0.0043483	5.94E-05	7.04E-05	0.000485914
0.109906	0.0186264	-0.0040914	5.66E-05	9.98E-05	0.000692174
0.109884	0.0173145	-0.0042496	5.84E-05	0.000105151	0.000693009
0.109891	0.0160793	-0.0037115	6.34E-05	0.000119069	0.000691765
0.10989	0.0148082	-0.0036714	6.60E-05	0.000114107	0.000691697
0.109869	0.0135071	-0.0037273	6.61E-05	0.000103995	0.000693324
0.109853	0.0121054	-0.0046769	6.65E-05	0.000102096	0.000693965
0.123012	0.0183332	-0.0046198	6.42E-05	0.00013443	0.000907681
0.122993	0.0170319	-0.0046785	6.39E-05	0.000137745	0.000911341
0.122997	0.0157965	-0.0041402	6.67E-05	0.000150789	0.000911661
0.122997	0.0145362	-0.0040005	7.14E-05	0.000148468	0.000912289
0.12298	0.0132572	-0.0038577	7.46E-05	0.000150944	0.000912178
0.122981	0.0119785	-0.0037141	7.69E-05	0.000151419	0.000910895
0.136126	0.0183007	-0.0027623	7.88E-05	0.000178404	0.00111869
0.136126	0.0169028	-0.0037159	7.48E-05	0.00018246	0.00112155
0.136108	0.0155911	-0.0038731	7.65E-05	0.000184097	0.00112261
0.13611	0.0144858	-0.0023419	8.12E-05	0.000184505	0.00112271
0.13611	0.0131749	-0.0024974	8.26E-05	0.000182908	0.00112181
0.136093	0.0118186	-0.0030493	8.43E-05	0.000186642	0.00111967
0.149233	0.0182153	-0.001402	8.29E-05	0.00020711	0.00128495
0.149243	0.0167964	-0.0025542	7.94E-05	0.000215327	0.00130612
0.14923	0.0154524	-0.0030096	8.30E-05	0.000218241	0.00130764
0.149226	0.0142594	-0.0022734	8.68E-05	0.000218138	0.00131008
0.149229	0.0129596	-0.0023293	8.70E-05	0.000222426	0.00131361
0.149217	0.011592	-0.0029806	8.78E-05	0.000222757	0.00131356
0.162347	0.0166689	-0.0015912	8.48E-05	0.000260007	0.0014714
0.16235	0.0153808	-0.0015495	8.81E-05	0.000261985	0.00147311
0.162335	0.0140998	-0.0016085	9.08E-05	0.000262654	0.00147324
0.162342	0.0127781	-0.001863	9.20E-05	0.000258887	0.00147506
0.16234	0.0115233	-0.0015203	9.31E-05	0.000253917	0.0014731
0.17547	0.0164877	-0.0011248	8.48E-05	0.000304547	0.00159805
0.175455	0.0151994	-0.0010833	8.65E-05	0.000304263	0.00159687
0.175458	0.0139114	-0.0010404	9.02E-05	0.000302656	0.00159034
0.175443	0.0126416	-0.0009991	9.48E-05	0.000303862	0.00158946

0.175439	0.0113872	-0.0006563	9.66E-05	0.000299178	0.00158936
0.188595	0.0162189	-0.0014533	8.06E-05	0.000342744	0.00167607
0.188584	0.0149856	-0.0009144	8.21E-05	0.000343296	0.00167386
0.188561	0.0137975	2.27E-05	8.70E-05	0.000341658	0.00166843
0.188547	0.0125282	6.40E-05	9.26E-05	0.000338658	0.00166966
0.188554	0.0112294	9.55E-06	9.46E-05	0.000334592	0.00167063
0.201687	0.0161373	-9.21E-05	7.75E-05	0.000377782	0.00171002
0.201703	0.0148164	-0.0003477	7.82E-05	0.000382481	0.00170829
0.201678	0.0135614	-7.23E-06	8.14E-05	0.000382621	0.00170618
0.201694	0.0122399	-0.0002609	8.51E-05	0.000376935	0.00170398
0.201695	0.0109816	-0.0001186	8.78E-05	0.000370793	0.00170292
0.214742	0.016067	0.00136755	6.92E-05	0.000411867	0.00168749
0.214766	0.0147357	0.00101282	7.32E-05	0.000416114	0.00168418
0.214803	0.0133254	-3.66E-05	7.48E-05	0.00041414	0.00168139
0.214746	0.012194	0.00139757	7.76E-05	0.000409633	0.00168079
0.214764	0.0108914	0.00114296	8.10E-05	0.000405533	0.00168048
0.22783	0.0159242	0.00233338	5.92E-05	0.000438501	0.00161983
0.227913	0.0144562	0.00058658	6.42E-05	0.000439464	0.00161404
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0.227889	0.0119582	0.00136953	6.78E-05	0.000434314	0.00160824
0.227904	0.0106136	0.00091804	7.15E-05	0.000432952	0.00160815
0.240956	0.0156899	0.00230415	4.72E-05	0.000456313	0.00148988
0.240994	0.0143471	0.00185104	5.05E-05	0.00045844	0.00148892
0.240916	0.0132338	0.00328152	5.01E-05	0.00045626	0.00148584
0.240935	0.0118904	0.00282925	4.89E-05	0.000454564	0.00148681
0.240936	0.0106144	0.00297413	5.36E-05	0.000454699	0.00148698
0.254093	0.0154892	0.00257453	3.79E-05	0.000460977	0.00131011
0.254117	0.0141455	0.00212074	3.87E-05	0.000463846	0.00130893
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0.25403	0.0117558	0.00369491	3.81E-05	0.000463409	0.00130552
0.25404	0.0104343	0.00344226	3.91E-05	0.000462245	0.00130557
0.267107	0.0154537	0.00433122	2.13E-05	0.000464774	0.00109461
0.267131	0.0141442	0.00417637	2.09E-05	0.000468294	0.00109255
0.267167	0.0127894	0.00362482	2.19E-05	0.000473431	0.00108969
0.267161	0.0115424	0.00386616	2.44E-05	0.000469352	0.00108815
0.267143	0.0102839	0.00400798	2.64E-05	0.000469054	0.0010864
0.280202	0.0152973	0.00499771	1.97E-05	0.000471462	0.000844184
0.28011	0.0141202	0.00603015	2.38E-05	0.00047474	0.000841843
0.280303	0.0125876	0.00389611	2.70E-05	0.000477236	0.000838237
0.280254	0.0113778	0.00463483	2.41E-05	0.000472995	0.00083426
0.280178	0.0102168	0.00546763	2.04E-05	0.000465815	0.000832964
0.293323	0.015078	0.00526951	3.17E-05	0.000464423	0.000532552
0.293287	0.0138412	0.00560661	3.28E-05	0.00046874	0.00056184
0.293188	0.0126872	0.00683893	4.09E-05	0.0004732	0.000557298
0.293253	0.0113325	0.00629095	4.09E-05	0.000468891	0.000552239
0.293353	0.00994559	0.00514447	3.55E-05	0.000460176	0.000550773
0.306351	0.0136991	0.0065719	4.59E-05	0.000453037	0.000269627

0.306372	0.0124181	0.00651603	5.52E-05	0.000460414	0.000264618
0.306305	0.0112153	0.00715146	5.73E-05	0.00046548	0.000258745
0.306375	0.00987795	0.00660309	4.92E-05	0.000463619	0.00025796
0.319466	0.0135084	0.00694079	5.61E-05	0.000433097	6.73E-05
0.319403	0.0123162	0.00767576	6.82E-05	0.00043932	7.22E-05
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0.514118	0.00804823	0.0235694	1.85E-05	5.75E-05	0.000710049
0.514143	0.00675463	0.0235201	2.19E-05	6.35E-05	0.000718255
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0.514316	0.00414089	0.0230425	4.25E-05	6.49E-05	0.000741621
0.526844	0.0105571	0.0251514	2.18E-05	4.94E-05	0.000491854
0.527001	0.00922616	0.0246187	1.78E-05	4.35E-05	0.000496468
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0.527048	0.00412452	0.0249195	2.07E-05	5.81E-05	0.000538412
0.528561	0.00409976	0.0248612	1.63E-05	5.16E-05	0.000479933
0.528401	0.00331412	0.0251243	1.63E-05	5.29E-05	0.000487555
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0.529014	0.00657506	0.0242603	1.66E-05	4.11E-05	0.000452912
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0.526807	0.0112713	0.0252672	1.85E-05	4.82E-05	0.000498469
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0.345506	0.0142599	0.00924997	8.83E-05	0.000389514	0.00063573
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0.332479	0.0144731	0.00807934	6.93E-05	0.000412492	0.000345151
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0.306431	0.00882865	0.00612221	4.21E-05	0.000461079	0.000257624
0.30636	0.0149652	0.00632992	4.86E-05	0.000444654	0.000219809
0.293265	0.00931191	0.00632075	3.00E-05	0.000456206	0.00049682
0.305092	0.0150255	0.00670267	4.41E-05	0.000448506	0.000362397
0.305092	0.0150255	0.00670267	3.77E-05	0.000461088	0.000436532
0.293385	0.0151119	0.00456418	2.80E-05	0.000470498	0.00057242
0.292846	0.00920392	0.00528388	2.03E-05	0.000462799	0.000631041
0.280305	0.00927666	0.00396985	2.10E-05	0.000469938	0.000834876
0.280174	0.0155337	0.00527195	1.84E-05	0.000473819	0.000845777
0.267185	0.00946179	0.00370144	3.15E-05	0.000469534	0.00108574
0.267133	0.015724	0.00389953	2.19E-05	0.000463292	0.00109617
0.254058	0.00964637	0.00343265	4.27E-05	0.000463895	0.00130489
0.254059	0.0159587	0.00292354	3.78E-05	0.000457996	0.00131163
0.24099	0.00970573	0.00207279	5.81E-05	0.000453252	0.00148607
0.240924	0.0163034	0.00293981	4.84E-05	0.000454465	0.0014915
0.227876	0.00984455	0.0014074	7.45E-05	0.000432152	0.00161045
0.227857	0.0164945	0.00156651	5.79E-05	0.000436793	0.00162108
0.214782	0.00998379	0.00074332	8.27E-05	0.000401621	0.0016833
0.214768	0.0167632	0.00088899	6.96E-05	0.000405806	0.00168973
0.201701	0.0100779	-0.0003177	8.94E-05	0.000366077	0.00169964
0.201688	0.0169996	-8.64E-05	7.77E-05	0.00037147	0.00170826
0.188552	0.0103301	1.10E-05	9.51E-05	0.000330016	0.00166716
0.188566	0.0173017	-0.0004662	8.12E-05	0.000339107	0.00167473
0.175434	0.0104991	-0.0005557	9.76E-05	0.000294954	0.00158563
0.175463	0.0176047	-0.0008452	8.49E-05	0.000299446	0.00159543
0.162337	0.010605	-0.001517	9.54E-05	0.000249561	0.00146946
0.162335	0.0179514	-0.0008267	8.58E-05	0.000254241	0.00147338
0.149208	0.0107335	-0.0022796	9.04E-05	0.000222793	0.00131031
0.150755	0.0181185	-0.0019834	8.50E-05	0.000219196	0.00136218
0.150755	0.0181185	-0.0019834	8.42E-05	0.000217007	0.00132305
0.136089	0.0109978	-0.0018495	8.48E-05	0.000181936	0.00111525
0.136124	0.018466	-0.0022774	7.74E-05	0.000172499	0.00106903
0.122978	0.011056	-0.0034086	7.70E-05	0.000146913	0.000906552
0.123015	0.0186421	-0.0038487	6.49E-05	0.000132795	0.000906595
0.10986	0.0112198	-0.0038726	6.54E-05	9.43E-05	0.000692397
0.10992	0.0190896	-0.0029347	5.72E-05	9.58E-05	0.000691291
0.0967428	0.0113507	-0.0046348	5.70E-05	6.01E-05	0.000485696
0.0968085	0.0193035	-0.0040072	4.93E-05	7.84E-05	0.000486971
0.0836037	0.0114597	-0.0055955	4.31E-05	4.66E-05	0.000300983
0.083676	0.0195372	-0.0050815	3.80E-05	5.78E-05	0.000302976
0.0704855	0.0116367	-0.0059607	3.30E-05	2.96E-05	0.000154643
0.0705855	0.0198292	-0.0054594	2.87E-05	3.50E-05	0.000155051
0.0576737	0.0129573	-0.0055622	3.02E-05	2.85E-05	7.32E-05
0.0576708	0.0119174	-0.0054453	3.00E-05	2.84E-05	7.66E-05

0.0577008	0.0142423	-0.0055055	3.19E-05	2.77E-05	7.34E-05
0.0577508	0.0156005	-0.0049534	3.14E-05	2.93E-05	7.41E-05
0.0577136	0.0167756	-0.0058868	2.76E-05	3.61E-05	7.41E-05
0.0577268	0.0180465	-0.0061272	2.67E-05	3.78E-05	7.37E-05
0.0577496	0.0193634	-0.0057678	2.63E-05	3.13E-05	7.33E-05
0.0577292	0.0200607	-0.0064464	2.46E-05	2.68E-05	7.71E-05

Source File beam1lb\_15deg\_fast\_48.13Hz

Name:

Signal: FFT - Vib 3D Velocity - Magnitude

dB-Reference: 0 dB = 1 m/s

Band No.: 1

Frequency: 48.13 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0678508	0.0183671	-0.00550797	1.33E-06	5.45E-07	6.55E-06
0.0837558	0.0177925	-0.00437785	1.88E-06	1.03E-06	1.35E-05
0.0837386	0.016267	-0.00422232	1.96E-06	1.51E-06	1.39E-05
0.0678582	0.016774	-0.00465608	1.28E-06	1.20E-06	6.52E-06
0.0837404	0.0147791	-0.00426276	2.03E-06	3.34E-06	1.42E-05
0.0678573	0.0153328	-0.00519474	1.35E-06	9.90E-07	6.51E-06
0.0837232	0.0132542	-0.00410459	1.98E-06	2.28E-06	1.44E-05
0.0678454	0.0137604	-0.00453909	1.35E-06	1.55E-06	6.74E-06
0.083724	0.0117205	-0.00384543	1.85E-06	2.86E-06	1.45E-05
0.0678534	0.0121615	-0.00358341	1.33E-06	1.25E-06	6.95E-06
0.0996472	0.0172774	-0.00379674	2.28E-06	3.67E-06	2.21E-05
0.0996101	0.0156201	-0.0022473	2.50E-06	4.81E-06	2.28E-05
0.0996229	0.0141996	-0.0031849	2.62E-06	6.06E-06	2.31E-05
0.0996179	0.0126663	-0.00272575	2.49E-06	7.56E-06	2.34E-05
0.0996011	0.0111613	-0.00276504	2.48E-06	7.92E-06	2.35E-05
0.115526	0.0166506	-0.00217365	2.98E-06	8.34E-06	3.28E-05
0.115529	0.0151735	-0.00231395	3.20E-06	9.67E-06	3.37E-05
0.115486	0.0135565	-0.00116111	3.23E-06	1.12E-05	3.42E-05
0.115522	0.0122005	-0.0027937	3.06E-06	1.23E-05	3.46E-05
0.115489	0.0106312	-0.00213586	2.89E-06	1.20E-05	3.45E-05
0.131417	0.016083	-0.00109908	3.62E-06	1.26E-05	4.45E-05
0.131415	0.014644	-0.00163749	3.70E-06	1.50E-05	4.56E-05
0.131409	0.0131206	-0.00147924	3.80E-06	1.55E-05	4.61E-05
0.131394	0.01157	-0.00102107	3.90E-06	1.58E-05	4.67E-05
0.131404	0.0101482	-0.00195556	3.62E-06	1.58E-05	4.63E-05
0.147342	0.0156305	-0.00116982	4.54E-06	1.79E-05	5.75E-05
0.14733	0.0140976	-0.000913047	4.42E-06	1.96E-05	5.90E-05
0.147314	0.0125559	-0.000555432	4.35E-06	1.99E-05	5.98E-05
0.1473	0.0110794	-0.000692958	4.54E-06	2.01E-05	6.02E-05
0.147317	0.00961153	-0.00112868	4.25E-06	1.97E-05	5.95E-05
0.163217	0.0150102	0.000398667	5.40E-06	2.34E-05	7.01E-05
0.163306	0.0136924	-0.00143066	5.26E-06	2.46E-05	7.11E-05

0.163241	0.0120666	-0.000177864	5.02E-06	2.54E-05	7.20E-05
0.163238	0.0105896	-0.000515741	5.03E-06	2.59E-05	7.26E-05
0.163248	0.00910308	-0.000751989	4.93E-06	2.58E-05	7.23E-05
0.179174	0.0145415	0.000626835	5.78E-06	2.77E-05	8.48E-05
0.179168	0.0130554	0.000386183	5.90E-06	2.84E-05	8.53E-05
0.179173	0.0115599	0.000247279	5.82E-06	3.04E-05	8.55E-05
0.179107	0.00998209	0.00100325	5.86E-06	3.00E-05	8.56E-05
0.179136	0.0085232	0.000469331	5.88E-06	2.96E-05	8.55E-05
0.195105	0.0125317	0.000858639	6.47E-06	3.17E-05	9.78E-05
0.195038	0.0109807	0.00151538	6.47E-06	3.26E-05	9.75E-05
0.195009	0.00943978	0.00187502	6.50E-06	3.31E-05	9.72E-05
0.195003	0.00795366	0.00163863	6.52E-06	3.33E-05	9.73E-05
0.210987	0.0119535	0.00217666	7.13E-06	3.41E-05	0.000109436
0.211071	0.010549	0.00104595	7.14E-06	3.57E-05	0.000110021
0.210896	0.00886193	0.00299276	7.06E-06	3.64E-05	0.000109662
0.210948	0.00742056	0.00226172	6.96E-06	3.80E-05	0.00010952
0.22695	0.0114502	0.00254979	7.43E-06	4.00E-05	0.000120142
0.226965	0.00996253	0.00231307	7.32E-06	4.07E-05	0.000121631
0.226937	0.00842949	0.00257368	7.32E-06	4.18E-05	0.000122682
0.226934	0.00694177	0.00233796	7.27E-06	4.28E-05	0.000123232
0.242878	0.0109016	0.00346899	7.47E-06	4.27E-05	0.000129219
0.242866	0.00938623	0.00353019	7.68E-06	4.36E-05	0.00013085
0.242893	0.00790706	0.00319619	7.79E-06	4.57E-05	0.000132358
0.242882	0.00640968	0.00305997	7.69E-06	4.55E-05	0.000133519
0.258929	0.0104358	0.00334727	7.91E-06	4.55E-05	0.000139889
0.258802	0.00883768	0.004298	8.23E-06	4.70E-05	0.000139479
0.258799	0.00733083	0.00426176	8.34E-06	4.69E-05	0.00013969
0.258786	0.00583366	0.00432752	8.15E-06	4.73E-05	0.000139578
0.274759	0.00978812	0.00525434	8.33E-06	4.97E-05	0.000147416
0.274715	0.0082626	0.00541293	8.39E-06	5.00E-05	0.00014682
0.274792	0.00683617	0.00468619	8.48E-06	4.99E-05	0.000146757
0.274742	0.00529291	0.00504734	8.43E-06	4.88E-05	0.000146034
0.290749	0.00927764	0.0057254	8.67E-06	5.35E-05	0.000155405
0.290746	0.00776883	0.00568855	8.46E-06	5.22E-05	0.000153483
0.290823	0.00634975	0.00486177	8.20E-06	5.10E-05	0.000151127
0.29067	0.0047348	0.00601347	8.30E-06	5.01E-05	0.000150089
0.30677	0.00878536	0.00604838	8.35E-06	5.28E-05	0.000157925
0.306752	0.00726615	0.00611053	8.08E-06	5.12E-05	0.000157092
0.30681	0.00580919	0.00548058	7.87E-06	5.11E-05	0.000155705
0.306712	0.00425581	0.00613924	7.92E-06	4.97E-05	0.000154726
0.306676	0.0027373	0.00620287	8.24E-06	4.81E-05	0.000155733
0.290561	0.00316562	0.00667017	8.42E-06	5.00E-05	0.000150149
0.322869	0.00831935	0.00592669	7.71E-06	4.92E-05	0.00015189
0.322722	0.00671816	0.00687617	7.69E-06	4.94E-05	0.000153984
0.322917	0.00534866	0.0054627	7.49E-06	4.95E-05	0.000154297
0.322765	0.00375779	0.00631368	7.69E-06	4.91E-05	0.000155616
0.322732	0.0022474	0.00648011	8.00E-06	4.76E-05	0.000157515
0.338745	0.0077097	0.00743133	7.71E-06	4.97E-05	0.000151515
0.33883	0.00626843	0.00680639	7.75E-06	5.03E-05	0.000152456
0.338731	0.00471129	0.00726118	7.89E-06	5.19E-05	0.000154984
0.338817	0.00325045	0.00663707	7.95E-06	5.23E-05	0.000155748
0.33872	0.00170405	0.00719738	8.16E-06	5.21E-05	0.00015847

0.354852	0.00723408	0.00750865	7.53E-06	5.26E-05	0.000150874
0.354814	0.00572001	0.00767122	7.56E-06	5.13E-05	0.000150259
0.35471	0.0041617	0.00812544	7.69E-06	5.11E-05	0.000152802
0.354736	0.00266466	0.00789575	7.78E-06	5.26E-05	0.00015482
0.354776	0.00120319	0.00746934	7.54E-06	5.22E-05	0.000157601
0.370768	0.00514415	0.00867863	7.02E-06	4.85E-05	0.00014392
0.370777	0.0036641	0.00844675	7.13E-06	4.82E-05	0.000147262
0.370873	0.00219942	0.00782495	7.15E-06	5.03E-05	0.000149862
0.370644	0.000599202	0.00896997	7.08E-06	5.01E-05	0.000151687
0.386815	0.00463924	0.00914512	6.27E-06	4.62E-05	0.000136568
0.386772	0.00310377	0.0093073	6.14E-06	4.52E-05	0.00013782
0.386765	0.00161318	0.00917509	6.53E-06	4.56E-05	0.000139392
0.386686	7.99E-05	0.0095375	6.59E-06	4.63E-05	0.00014155
0.402728	0.00404534	0.0104431	5.80E-06	4.33E-05	0.000126689
0.402627	0.00251017	0.0107991	5.69E-06	4.07E-05	0.000126876
0.40277	0.00105919	0.00998412	6.05E-06	4.17E-05	0.000128973
0.402782	-0.000424898	0.00975557	6.49E-06	4.07E-05	0.000132241
0.418904	0.00358125	0.0103171	5.39E-06	3.94E-05	0.000115458
0.418857	0.0020605	0.0104807	5.28E-06	3.85E-05	0.000116878
0.41873	0.000506223	0.0110362	5.57E-06	3.81E-05	0.000118804
0.418743	-0.000998321	0.0108065	5.88E-06	3.69E-05	0.000121446
0.434926	0.00303807	0.0111213	4.45E-06	3.53E-05	9.99E-05
0.435042	0.00158353	0.0105049	4.59E-06	3.52E-05	0.000102029
0.434994	6.92E-05	0.0105684	4.84E-06	3.50E-05	0.000103663
0.43482	-0.00150363	0.0113193	5.02E-06	3.39E-05	0.000106128
0.450582	0.0023485	0.0136256	3.45E-06	3.17E-05	8.87E-05
0.450792	0.000935603	0.0125203	3.66E-06	3.30E-05	8.97E-05
0.450739	-0.00058841	0.0126849	3.81E-06	3.26E-05	9.02E-05
0.450669	-0.00211183	0.0128468	4.27E-06	3.18E-05	9.32E-05
0.450723	-0.00359392	0.0125275	4.56E-06	3.19E-05	9.55E-05
0.434793	-0.00302739	0.0112863	5.26E-06	3.40E-05	0.000106351
0.466951	0.00193063	0.0128626	3.28E-06	2.30E-05	7.29E-05
0.466946	0.000429259	0.0127303	3.11E-06	2.50E-05	7.36E-05
0.466936	-0.00108077	0.0127005	3.11E-06	2.88E-05	7.45E-05
0.466774	-0.00264013	0.0132505	3.57E-06	2.79E-05	7.58E-05
0.466786	-0.00414135	0.0131261	3.79E-06	3.00E-05	7.77E-05
0.483101	0.00142568	0.0131166	3.26E-06	1.75E-05	6.09E-05
0.482951	-0.000118751	0.0136686	3.00E-06	2.06E-05	5.71E-05
0.482918	-0.00163939	0.0137359	2.53E-06	2.28E-05	5.87E-05
0.483215	-0.00303627	0.0123467	2.78E-06	2.23E-05	5.93E-05
0.482785	-0.00469602	0.0140639	2.86E-06	2.54E-05	6.17E-05
0.498941	-0.00068653	0.0146465	2.88E-06	1.89E-05	4.04E-05
0.498979	-0.00218472	0.0144238	2.48E-06	1.79E-05	4.17E-05
0.499046	-0.00364778	0.0140059	2.16E-06	1.62E-05	4.43E-05
0.498962	-0.00518715	0.0142691	2.07E-06	1.91E-05	4.57E-05
0.515093	-0.00119729	0.0149898	2.82E-06	1.78E-05	2.51E-05
0.515006	-0.00272084	0.0152515	2.50E-06	1.46E-05	2.65E-05
0.515076	-0.00420554	0.014833	2.12E-06	1.37E-05	2.94E-05
0.514838	-0.00577681	0.0156761	1.85E-06	1.50E-05	3.22E-05
0.529038	-0.00619734	0.0155477	1.79E-06	1.37E-05	2.30E-05
0.52893	-0.00726388	0.0162612	1.68E-06	1.30E-05	2.44E-05
0.515071	-0.00657246	0.0147375	1.84E-06	1.54E-05	3.35E-05

0.528804	-0.00470772	0.015921	1.78E-06	1.43E-05	2.08E-05
0.529007	-0.00307973	0.0146589	1.89E-06	1.35E-05	1.84E-05
0.528687	-0.00164207	0.0154231	1.59E-06	1.55E-05	1.78E-05
0.515025	-9.05E-05	0.0153789	2.37E-06	1.76E-05	2.66E-05
0.528537	-0.000674695	0.0156738	1.26E-06	1.50E-05	1.73E-05
0.498943	-0.00587323	0.0143106	2.41E-06	2.10E-05	4.74E-05
0.499244	0.000740973	0.0135011	2.97E-06	1.79E-05	4.13E-05
0.482887	-0.00518155	0.0135319	3.08E-06	2.68E-05	6.43E-05
0.484132	0.00141111	0.0129504	3.23E-06	1.72E-05	5.62E-05
0.483008	0.00141059	0.0135057	3.30E-06	2.13E-05	6.23E-05
0.466833	-0.00448158	0.0129026	3.72E-06	2.95E-05	7.98E-05
0.466994	0.00215415	0.0126861	3.30E-06	2.66E-05	7.36E-05
0.450617	-0.00384106	0.012997	4.39E-06	3.22E-05	9.59E-05
0.450579	0.00274167	0.0136595	3.66E-06	3.38E-05	8.96E-05
0.434752	-0.00306263	0.0114797	5.19E-06	3.39E-05	0.000106364
0.434922	0.00361818	0.0111716	4.62E-06	3.67E-05	0.000101828
0.431921	-0.00281688	0.0100842	5.74E-06	3.41E-05	0.000112133
0.418773	-0.00235384	0.0105942	6.22E-06	3.57E-05	0.000122471
0.418857	0.00433986	0.0106821	5.61E-06	4.23E-05	0.000116595
0.402771	-0.00162756	0.00975253	6.46E-06	4.14E-05	0.000133931
0.402758	0.00503277	0.0103324	5.93E-06	4.65E-05	0.000129442
0.386603	-0.000996953	0.0098377	6.77E-06	4.71E-05	0.000142252
0.386734	0.0057594	0.00963884	6.30E-06	4.89E-05	0.000137748
0.370803	-0.000199136	0.00801172	7.18E-06	5.18E-05	0.000152917
0.370741	0.00649382	0.00889705	6.94E-06	4.94E-05	0.000144697
0.354588	0.000394359	0.00858867	7.69E-06	5.39E-05	0.000159027
0.358216	0.00706956	0.00814982	7.35E-06	5.29E-05	0.000149882
0.354771	0.00722676	0.00800345	7.47E-06	5.32E-05	0.000150922
0.338721	0.0011556	0.00704811	7.95E-06	5.34E-05	0.000158966
0.338728	0.00794213	0.00755145	7.67E-06	4.97E-05	0.00015056
0.322777	0.00188362	0.00615056	7.90E-06	4.88E-05	0.000157647
0.322856	0.00872809	0.00616496	7.91E-06	4.97E-05	0.000152113
0.306624	0.00248026	0.00657843	8.09E-06	4.76E-05	0.000155248
0.306792	0.0094151	0.00590647	8.49E-06	5.37E-05	0.000157056
0.290611	0.00314493	0.00626994	8.33E-06	4.92E-05	0.000150256
0.290658	0.0100286	0.00649129	8.91E-06	5.40E-05	0.000156066
0.284995	0.00339023	0.00610104	8.52E-06	5.03E-05	0.000147526
0.274663	0.00385273	0.00551645	8.61E-06	4.85E-05	0.000145964
0.274776	0.0108054	0.00514796	8.30E-06	4.83E-05	0.00014765
0.259335	0.00457379	0.00427388	8.49E-06	4.60E-05	0.000143525
0.258805	0.00462118	0.00391859	8.13E-06	4.58E-05	0.000138493
0.258901	0.0116015	0.00365417	7.96E-06	4.53E-05	0.000142648
0.242771	0.00512038	0.00414432	7.78E-06	4.56E-05	0.000132903
0.242948	0.0121953	0.00299045	7.61E-06	4.20E-05	0.000129223
0.258761	0.0115744	0.00393966	7.95E-06	4.38E-05	0.000138914
0.22687	0.00574348	0.00303099	7.28E-06	4.19E-05	0.000122071
0.226953	0.0127527	0.00277216	7.39E-06	3.88E-05	0.000118555
0.210953	0.00634947	0.00216561	6.95E-06	3.86E-05	0.00010951
0.211022	0.0133664	0.00200917	7.12E-06	3.44E-05	0.00010913
0.194994	0.00690195	0.00174422	6.56E-06	3.34E-05	9.69E-05
0.19503	0.0139157	0.0019899	6.47E-06	3.13E-05	9.88E-05
0.179086	0.00746384	0.00127563	5.92E-06	2.95E-05	8.49E-05

0.187751	0.0142659	0.000731142	6.07E-06	3.08E-05	9.19E-05
0.18777	0.014294	0.000433083	5.71E-06	2.66E-05	8.80E-05
0.179139	0.0145221	0.00122661	5.65E-06	2.58E-05	8.29E-05
0.163188	0.00809864	5.85E-05	4.96E-06	2.49E-05	7.19E-05
0.163211	0.0151115	0.000508563	5.35E-06	2.16E-05	6.96E-05
0.147248	0.0086077	8.35E-05	4.15E-06	1.90E-05	5.90E-05
0.147344	0.0157773	-0.00075369	4.52E-06	1.54E-05	5.68E-05
0.131363	0.00919007	-0.000637978	3.58E-06	1.43E-05	4.61E-05
0.131425	0.0163698	-0.00137299	3.60E-06	1.01E-05	4.39E-05
0.115482	0.00981929	-0.00180874	3.03E-06	1.07E-05	3.42E-05
0.115537	0.017012	-0.00264129	2.87E-06	7.17E-06	3.24E-05
0.0995948	0.0103862	-0.00223388	2.46E-06	7.02E-06	2.33E-05
0.0996566	0.0177418	-0.00455584	2.25E-06	3.48E-06	2.20E-05
0.0837269	0.0111104	-0.00450431	1.69E-06	2.11E-06	1.44E-05
0.0837555	0.0182457	-0.00443475	1.87E-06	8.13E-07	1.33E-05
0.0678558	0.0115242	-0.00334116	1.34E-06	1.60E-06	6.72E-06
0.0678708	0.0188465	-0.00506	1.26E-06	9.50E-07	6.57E-06
0.0541391	0.0126361	-0.00420611	1.40E-06	1.43E-06	4.11E-06
0.0541339	0.0120815	-0.0046593	1.57E-06	3.71E-06	3.67E-06
0.0541115	0.0142921	-0.00595941	1.37E-06	1.68E-06	4.36E-06
0.0541119	0.0158567	-0.00651511	1.33E-06	1.64E-06	4.12E-06
0.0541166	0.0173466	-0.0064737	1.19E-06	2.31E-06	4.04E-06
0.0541477	0.0187496	-0.00533467	1.03E-06	2.41E-06	3.96E-06
0.054139	0.0193807	-0.0058764	1.00E-06	1.99E-06	3.73E-06

Source File: beam1lb\_15deg\_fast\_147.5Hz  
 Name:  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 147.5 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0678508	0.0183671	-0.00550797	3.65E-05	4.87E-05	8.25E-05
0.0837558	0.0177925	-0.00437785	2.98E-05	0.000113033	0.00019184
0.0837386	0.016267	-0.00422232	2.81E-05	0.000113623	0.000192261
0.0678582	0.016774	-0.00465608	3.65E-05	4.93E-05	8.23E-05
0.0837404	0.0147791	-0.00426276	2.87E-05	0.000114969	0.000192287
0.0678573	0.0153328	-0.00519474	3.68E-05	5.01E-05	8.21E-05
0.0837232	0.0132542	-0.00410459	3.11E-05	0.000112435	0.000192045
0.0678454	0.0137604	-0.00453909	3.74E-05	5.03E-05	8.20E-05
0.083724	0.0117205	-0.00384543	3.16E-05	0.000107746	0.000191287
0.0678534	0.0121615	-0.00358341	3.58E-05	4.75E-05	8.19E-05
0.0996472	0.0172774	-0.00379674	2.41E-05	0.000203098	0.000330064
0.0996101	0.0156201	-0.0022473	2.20E-05	0.000205349	0.000330094
0.0996229	0.0141996	-0.0031849	2.16E-05	0.000203654	0.000329546
0.0996179	0.0126663	-0.00272575	2.39E-05	0.000203205	0.000328738
0.0996011	0.0111613	-0.00276504	2.55E-05	0.0001979	0.000328359

0.115526	0.0166506	-0.00217365	2.11E-05	0.000306426	0.000476038
0.115529	0.0151735	-0.00231395	2.13E-05	0.00030488	0.000475831
0.115486	0.0135565	-0.00116111	2.13E-05	0.000305036	0.000476198
0.115522	0.0122005	-0.0027937	2.20E-05	0.000300842	0.000474616
0.115489	0.0106312	-0.00213586	2.35E-05	0.000296594	0.000473024
0.131417	0.016083	-0.00109908	2.30E-05	0.000412366	0.000621284
0.131415	0.014644	-0.00163749	2.28E-05	0.000412186	0.00062275
0.131409	0.0131206	-0.00147924	2.20E-05	0.000412284	0.000622086
0.131394	0.01157	-0.00102107	2.19E-05	0.000414323	0.000620418
0.131404	0.0101482	-0.00195556	2.25E-05	0.000405304	0.000614722
0.147342	0.0156305	-0.00116982	2.48E-05	0.000521875	0.000750838
0.14733	0.0140976	-0.000913047	2.32E-05	0.0005219	0.000752911
0.147314	0.0125559	-0.000555432	2.22E-05	0.000524402	0.000752794
0.1473	0.0110794	-0.000692958	2.15E-05	0.000520818	0.000750159
0.147317	0.00961153	-0.00112868	2.19E-05	0.000516073	0.00074513
0.163217	0.0150102	0.000398667	2.55E-05	0.000624671	0.000855283
0.163306	0.0136924	-0.00143066	2.28E-05	0.000627292	0.000861851
0.163241	0.0120666	-0.000177864	2.16E-05	0.000626915	0.000862146
0.163238	0.0105896	-0.000515741	2.14E-05	0.000624156	0.000858061
0.163248	0.00910308	-0.000751989	2.14E-05	0.000617921	0.000850382
0.179174	0.0145415	0.000626835	2.51E-05	0.000722568	0.000935588
0.179168	0.0130554	0.000386183	2.25E-05	0.000721657	0.000932202
0.179173	0.0115599	0.000247279	2.13E-05	0.000720096	0.000931449
0.179107	0.00998209	0.00100325	2.14E-05	0.000719209	0.000929667
0.179136	0.0085232	0.000469331	2.15E-05	0.000717537	0.000925439
0.195105	0.0125317	0.000858639	2.11E-05	0.000808069	0.000959432
0.195038	0.0109807	0.00151538	2.04E-05	0.000803168	0.00095607
0.195009	0.00943978	0.00187502	2.08E-05	0.000805159	0.000956215
0.195003	0.00795366	0.00163863	2.20E-05	0.000801942	0.000954234
0.210987	0.0119535	0.00217666	2.00E-05	0.000873703	0.000955518
0.211071	0.010549	0.00104595	2.22E-05	0.00086827	0.000948947
0.210896	0.00886193	0.00299276	2.38E-05	0.00086508	0.000946104
0.210948	0.00742056	0.00226172	2.49E-05	0.000859043	0.000941985
0.22695	0.0114502	0.00254979	2.20E-05	0.000937512	0.000909198
0.226965	0.00996253	0.00231307	2.65E-05	0.000935574	0.000900909
0.226937	0.00842949	0.00257368	2.73E-05	0.000925479	0.000897772
0.226934	0.00694177	0.00233796	2.84E-05	0.000909355	0.000892328
0.242878	0.0109016	0.00346899	2.77E-05	0.000984853	0.000817876
0.242866	0.00938623	0.00353019	3.35E-05	0.000984653	0.000804273
0.242893	0.00790706	0.00319619	3.57E-05	0.000964904	0.000799995
0.242882	0.00640968	0.00305997	3.70E-05	0.000945641	0.000798949
0.258929	0.0104358	0.00334727	3.94E-05	0.000994454	0.000685161
0.258802	0.00883768	0.004298	4.67E-05	0.000982482	0.000669339
0.258799	0.00733083	0.00426176	5.00E-05	0.000965318	0.000665669
0.258786	0.00583366	0.00432752	5.23E-05	0.000956669	0.00066733
0.274759	0.00978812	0.00525434	5.55E-05	0.000983767	0.000518602
0.274715	0.0082626	0.00541293	6.15E-05	0.00097426	0.000502797
0.274792	0.00683617	0.00468619	6.40E-05	0.000963756	0.00049707
0.274742	0.00529291	0.00504734	6.65E-05	0.000963045	0.000496376
0.290749	0.00927764	0.0057254	6.76E-05	0.00097168	0.00032955
0.290746	0.00776883	0.00568855	7.09E-05	0.000969333	0.000314176
0.290823	0.00634975	0.00486177	7.26E-05	0.000964219	0.000307278

0.29067	0.0047348	0.00601347	7.69E-05	0.00095986	0.000304491
0.30677	0.00878536	0.00604838	7.51E-05	0.000945078	0.000126352
0.306752	0.00726615	0.00611053	7.86E-05	0.000941139	0.000113653
0.30681	0.00580919	0.00548058	8.01E-05	0.000940815	0.000107163
0.306712	0.00425581	0.00613924	8.28E-05	0.000929773	0.000104395
0.306676	0.0027373	0.00620287	8.53E-05	0.000911991	0.0001038
0.290561	0.00316562	0.00667017	8.16E-05	0.000944781	0.000284623
0.322869	0.00831935	0.00592669	8.21E-05	0.000906277	9.32E-05
0.322722	0.00671816	0.00687617	8.60E-05	0.000905219	0.00010574
0.322917	0.00534866	0.0054627	8.71E-05	0.00090035	0.000111574
0.322765	0.00375779	0.00631368	8.71E-05	0.000891231	0.000115872
0.322732	0.0022474	0.00648011	8.83E-05	0.00087846	0.000117429
0.338745	0.0077097	0.00743133	9.18E-05	0.000857185	0.0002921
0.33883	0.00626843	0.00680639	9.33E-05	0.000857982	0.000305084
0.338731	0.00471129	0.00726118	9.31E-05	0.000858085	0.000313995
0.338817	0.00325045	0.00663707	9.21E-05	0.000849702	0.000317078
0.33872	0.00170405	0.00719738	9.25E-05	0.000846397	0.000320945
0.354852	0.00723408	0.00750865	9.63E-05	0.000822114	0.000450303
0.354814	0.00572001	0.00767122	9.79E-05	0.000808051	0.000489356
0.35471	0.0041617	0.00812544	9.84E-05	0.000804594	0.000497306
0.354736	0.00266466	0.00789575	9.73E-05	0.000790654	0.00050266
0.354776	0.00120319	0.00746934	9.58E-05	0.000786367	0.000505994
0.370768	0.00514415	0.00867863	0.000101152	0.000758749	0.000649016
0.370777	0.0036641	0.00844675	0.000100834	0.000751091	0.00065844
0.370873	0.00219942	0.00782495	9.96E-05	0.000740818	0.000664507
0.370644	0.000599202	0.00896997	9.90E-05	0.000742443	0.0006681
0.386815	0.00463924	0.00914512	0.000101838	0.000713623	0.000777842
0.386772	0.00310377	0.0093073	0.000101875	0.000706436	0.000787618
0.386765	0.00161318	0.00917509	0.000100841	0.000700287	0.000796208
0.386686	7.99E-05	0.0095375	9.98E-05	0.000702814	0.000802985
0.402728	0.004040534	0.0104431	0.000101955	0.000660963	0.000870166
0.402627	0.00251017	0.0107991	0.000100553	0.000650031	0.000879556
0.40277	0.00105919	0.00998412	9.83E-05	0.000638049	0.000890384
0.402782	-0.000424898	0.00975557	9.61E-05	0.000640263	0.000898154
0.418904	0.00358125	0.0103171	9.84E-05	0.00059146	0.000916144
0.418857	0.0020605	0.0104807	9.53E-05	0.000578514	0.000924158
0.41873	0.000506223	0.0110362	9.27E-05	0.000569443	0.000934843
0.418743	-0.000998321	0.0108065	9.01E-05	0.000576482	0.000946135
0.434926	0.00303807	0.0111213	9.22E-05	0.000521442	0.000917654
0.435042	0.00158353	0.0105049	8.83E-05	0.000511509	0.000921606
0.434994	6.92E-05	0.0105684	8.46E-05	0.000508504	0.000932887
0.43482	-0.00150363	0.0113193	8.26E-05	0.000517562	0.000944133
0.450582	0.0023485	0.0136256	8.40E-05	0.000457667	0.000874087
0.450792	0.000935603	0.0125203	7.92E-05	0.000455918	0.000876211
0.450739	-0.00058841	0.0126849	7.68E-05	0.000450604	0.000883048
0.450669	-0.00211183	0.0128468	7.41E-05	0.000452357	0.000894812
0.450723	-0.00359392	0.0125275	7.19E-05	0.00045725	0.000904043
0.434793	-0.00302739	0.0112863	8.04E-05	0.000516607	0.000950424
0.466951	0.00193063	0.0128626	7.93E-05	0.000405127	0.000789096
0.466946	0.000429259	0.0127303	7.45E-05	0.000402053	0.000793204
0.466936	-0.00108077	0.0127005	7.11E-05	0.000394651	0.00079736
0.466774	-0.00264013	0.0132505	6.89E-05	0.000392222	0.000808102

0.466786	-0.00414135	0.0131261	6.38E-05	0.000400581	0.000818258
0.483101	0.00142568	0.0131166	7.57E-05	0.000362168	0.000685745
0.482951	-0.000118751	0.0136686	7.01E-05	0.000347089	0.000667087
0.482918	-0.00163939	0.0137359	6.45E-05	0.000330863	0.000674247
0.483215	-0.00303627	0.0123467	6.09E-05	0.000330971	0.000683843
0.482785	-0.00469602	0.0140639	5.57E-05	0.000340422	0.000696929
0.498941	-0.00068653	0.0146465	6.29E-05	0.000264487	0.000518984
0.498979	-0.00218472	0.0144238	5.68E-05	0.000263013	0.000524915
0.499046	-0.00364778	0.0140059	5.04E-05	0.000259208	0.000536517
0.498962	-0.00518715	0.0142691	4.71E-05	0.00026651	0.000549601
0.515093	-0.00119729	0.0149898	5.43E-05	0.0001807	0.000356275
0.515006	-0.00272084	0.0152515	4.77E-05	0.000186436	0.000362119
0.515076	-0.00420554	0.014833	4.04E-05	0.000199879	0.000371996
0.514838	-0.00577681	0.0156761	3.63E-05	0.000201404	0.00038691
0.529038	-0.00619734	0.0155477	2.91E-05	0.000158137	0.000263122
0.52893	-0.00726388	0.0162612	2.40E-05	0.000174825	0.000276546
0.515071	-0.00657246	0.0147375	3.33E-05	0.000215048	0.000393335
0.528804	-0.00470772	0.015921	3.78E-05	0.000147933	0.000252709
0.529007	-0.00307973	0.0146589	4.72E-05	0.000140365	0.000242672
0.528687	-0.00164207	0.0154231	4.94E-05	0.000120278	0.000236678
0.515025	-9.05E-05	0.0153789	5.83E-05	0.000189995	0.000355804
0.528537	-0.000674695	0.0156738	5.25E-05	0.000137633	0.000242132
0.498943	-0.00587323	0.0143106	4.70E-05	0.00027465	0.000555912
0.499244	0.000740973	0.0135011	6.91E-05	0.00028185	0.000514792
0.482887	-0.00518155	0.0135319	5.50E-05	0.000346027	0.000700822
0.484132	0.00141111	0.0129504	7.44E-05	0.000342057	0.000632841
0.483008	0.00141059	0.0135057	7.65E-05	0.000371921	0.000689499
0.466833	-0.00448158	0.0129026	6.35E-05	0.00040795	0.000821912
0.466994	0.00215415	0.0126861	8.01E-05	0.000412224	0.000787669
0.450617	-0.00384106	0.012997	7.19E-05	0.000464441	0.000908891
0.450579	0.00274167	0.0136595	8.52E-05	0.000465523	0.000873665
0.434752	-0.00306263	0.0114797	8.03E-05	0.000518229	0.000952147
0.434922	0.00361818	0.0111716	9.34E-05	0.000526345	0.000915347
0.431921	-0.00281688	0.0100842	8.54E-05	0.000545511	0.000958056
0.418773	-0.00235384	0.0105942	9.11E-05	0.000589784	0.000945183
0.418857	0.00433986	0.0106821	9.96E-05	0.000593176	0.000910341
0.402771	-0.00162756	0.00975253	9.54E-05	0.000650525	0.000896206
0.402758	0.00503277	0.0103324	0.000102107	0.000662563	0.00086169
0.386603	-0.000996953	0.0098377	9.99E-05	0.000708946	0.000799521
0.386734	0.0057594	0.00963884	0.000102479	0.000718746	0.000770083
0.370803	-0.000199136	0.00801172	9.84E-05	0.00074587	0.000666086
0.370741	0.00649382	0.00889705	0.000100594	0.000766411	0.000640651
0.354588	0.000394359	0.00858867	9.51E-05	0.000789832	0.000506217
0.358216	0.00706956	0.00814982	9.72E-05	0.000808941	0.00051265
0.354771	0.00722676	0.00800345	9.52E-05	0.000824697	0.000441299
0.338721	0.0011556	0.00704811	9.26E-05	0.000845338	0.000319941
0.338728	0.00794213	0.00755145	9.04E-05	0.000858659	0.000287914
0.322777	0.00188362	0.00615056	9.01E-05	0.000883085	0.000117696
0.322856	0.00872809	0.00616496	7.98E-05	0.000915332	9.01E-05
0.306624	0.00248026	0.00657843	8.82E-05	0.000911468	0.000103671
0.306792	0.0094151	0.00590647	7.39E-05	0.00095517	0.000129439
0.290611	0.00314493	0.00626994	8.41E-05	0.000946232	0.000281077

0.290658	0.0100286	0.00649129	6.57E-05	0.000980519	0.000332593
0.284995	0.00339023	0.00610104	7.81E-05	0.000957852	0.000372669
0.274663	0.00385273	0.00551645	6.65E-05	0.000968728	0.000507499
0.274776	0.0108054	0.00514796	5.29E-05	0.000985067	0.000521576
0.259335	0.00457379	0.00427388	5.51E-05	0.00097537	0.000626719
0.258805	0.00462118	0.00391859	4.87E-05	0.000960838	0.00069974
0.258901	0.0116015	0.00365417	3.91E-05	0.00098769	0.000659267
0.242771	0.00512038	0.00414432	3.77E-05	0.000937775	0.000797855
0.242948	0.0121953	0.00299045	2.63E-05	0.000958096	0.000818848
0.258761	0.0115744	0.00393966	3.34E-05	0.000967774	0.000724539
0.22687	0.00574348	0.00303099	2.84E-05	0.000903741	0.000890591
0.226953	0.0127527	0.00277216	2.08E-05	0.000917459	0.000910893
0.210953	0.00634947	0.00216561	2.45E-05	0.000854126	0.000941252
0.211022	0.0133664	0.00200917	1.95E-05	0.000866473	0.000958815
0.194994	0.00690195	0.00174422	2.22E-05	0.00079349	0.000952844
0.19503	0.0139157	0.0019899	2.20E-05	0.000812009	0.000968304
0.179086	0.00746384	0.00127563	2.16E-05	0.000708204	0.000921293
0.187751	0.0142659	0.000731142	2.42E-05	0.000769623	0.000961137
0.18777	0.014294	0.000433083	2.51E-05	0.000746524	0.000954736
0.179139	0.0145221	0.00122661	2.65E-05	0.000712259	0.000928457
0.163188	0.00809864	5.85E-05	2.18E-05	0.000612216	0.000846363
0.163211	0.0151115	0.000508563	2.67E-05	0.000622625	0.000851549
0.147248	0.0086077	8.35E-05	2.24E-05	0.000505616	0.000742519
0.147344	0.0157773	-0.00075369	2.53E-05	0.000519752	0.000748851
0.131363	0.00919007	-0.000637978	2.30E-05	0.000397624	0.000612995
0.131425	0.0163698	-0.00137299	2.32E-05	0.000413008	0.000619707
0.115482	0.00981929	-0.00180874	2.41E-05	0.000288162	0.000472893
0.115537	0.017012	-0.00264129	2.09E-05	0.000304225	0.00047543
0.0995948	0.0103862	-0.00223388	2.64E-05	0.000194694	0.000328148
0.0996566	0.0177418	-0.00455584	2.55E-05	0.000202765	0.000330135
0.0837269	0.0111104	-0.00450431	3.13E-05	0.00010558	0.000191566
0.0837555	0.0182457	-0.00443475	3.03E-05	0.00011261	0.000192585
0.0678558	0.0115242	-0.00334116	3.53E-05	4.70E-05	8.29E-05
0.0678708	0.0188465	-0.00506	3.67E-05	4.79E-05	8.41E-05
0.0541391	0.0126361	-0.00420611	3.89E-05	3.05E-05	2.51E-05
0.0541339	0.0120815	-0.0046593	3.82E-05	3.21E-05	2.73E-05
0.0541115	0.0142921	-0.00595941	4.01E-05	2.78E-05	2.54E-05
0.0541119	0.0158567	-0.00651511	4.03E-05	2.42E-05	2.54E-05
0.0541166	0.0173466	-0.0064737	3.94E-05	2.32E-05	2.54E-05
0.0541477	0.0187496	-0.00533467	3.90E-05	1.74E-05	2.55E-05
0.054139	0.0193807	-0.0058764	3.93E-05	1.33E-05	2.82E-05

Source File: beam1lb\_30deg\_fast\_48.13Hz  
 Name:  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 48.13 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0518091	0.00965715	-0.00646857	1.30E-06	6.06E-07	7.66E-06
0.0659021	0.00522006	-0.00610007	2.11E-06	7.49E-07	1.88E-05
0.0655194	0.00399632	-0.00673863	2.08E-06	1.49E-06	1.89E-05
0.0514515	0.00820225	-0.00592999	1.73E-06	1.36E-06	7.53E-06
0.0651674	0.00246775	-0.00580552	2.31E-06	9.60E-07	1.91E-05
0.0510676	0.00688512	-0.00607601	1.72E-06	5.55E-07	7.59E-06
0.0648068	0.0010546	-0.00556195	2.52E-06	1.43E-06	1.91E-05
0.0507038	0.00554413	-0.00612435	1.93E-06	1.85E-06	7.58E-06
0.0644408	-0.000165377	-0.00619569	2.80E-06	1.78E-06	1.85E-05
0.0503316	0.00416883	-0.00597391	2.00E-06	8.92E-07	6.97E-06
0.0799879	0.000839931	-0.00609084	2.38E-06	1.07E-06	3.74E-05
0.0796013	-0.000307685	-0.00712181	2.59E-06	1.20E-06	3.70E-05
0.0792145	-0.00160449	-0.00736545	2.66E-06	2.02E-06	3.76E-05
0.0788548	-0.00314758	-0.00633172	3.30E-06	2.10E-06	3.75E-05
0.078493	-0.00452356	-0.0061813	3.28E-06	1.81E-06	3.68E-05
0.0940739	-0.0034878	-0.00623767	3.47E-06	6.92E-07	6.08E-05
0.093696	-0.00465577	-0.00717057	3.08E-06	2.72E-06	6.07E-05
0.093318	-0.00617434	-0.00633658	3.45E-06	3.56E-06	6.16E-05
0.0929274	-0.00739514	-0.00697158	3.44E-06	2.17E-06	6.20E-05
0.0925673	-0.00884422	-0.00642758	3.58E-06	2.50E-06	6.19E-05
0.108156	-0.00770449	-0.00703822	3.66E-06	1.01E-06	8.75E-05
0.107767	-0.00905324	-0.00708906	3.17E-06	2.52E-06	8.82E-05
0.107397	-0.0103346	-0.00743132	3.04E-06	2.58E-06	8.99E-05
0.107014	-0.0118144	-0.00669037	3.19E-06	3.02E-06	9.02E-05
0.106646	-0.0131872	-0.0065387	3.46E-06	2.39E-06	9.03E-05
0.122255	-0.011947	-0.00770389	3.05E-06	2.18E-06	0.000117669
0.121862	-0.0133501	-0.00745957	2.25E-06	2.61E-06	0.0001189
0.121478	-0.0145907	-0.00799748	2.01E-06	2.98E-06	0.000119867
0.121108	-0.0159271	-0.00804335	2.28E-06	3.79E-06	0.000120141
0.120715	-0.0173475	-0.00769688	2.75E-06	4.28E-06	0.000120085
0.136336	-0.0163535	-0.00754834	1.33E-06	2.82E-06	0.000150958
0.135954	-0.0176124	-0.00798897	1.08E-06	3.21E-06	0.00015324
0.135586	-0.0188745	-0.00853047	9.66E-07	3.58E-06	0.000153959
0.135187	-0.020331	-0.00788672	1.10E-06	3.21E-06	0.00015432
0.134801	-0.0216441	-0.00802872	1.25E-06	3.44E-06	0.000154234
0.150434	-0.0205451	-0.00853514	1.61E-06	2.26E-06	0.000190262
0.150071	-0.0218095	-0.00897618	2.25E-06	2.25E-06	0.000194331
0.149681	-0.0231407	-0.00902212	1.83E-06	2.13E-06	0.00019644
0.149294	-0.0245629	-0.00867664	1.53E-06	3.24E-07	0.000196826
0.148893	-0.025981	-0.00822796	3.29E-07	8.51E-07	0.000196127
0.150836	-0.019144	-0.00877881	2.27E-07	6.60E-07	0.000194788
0.164937	-0.0234881	-0.00894177	2.17E-06	1.67E-06	0.000228081
0.164582	-0.0246243	-0.0101736	4.47E-06	2.35E-06	0.000230524
0.164191	-0.0260478	-0.00972899	4.68E-06	1.89E-06	0.000235227
0.16379	-0.0274311	-0.00947956	4.10E-06	1.57E-06	0.000237648
0.163388	-0.0288127	-0.00933027	3.31E-06	3.24E-07	0.000238308
0.163	-0.0302166	-0.00898003	1.81E-06	1.54E-06	0.000236966
0.179037	-0.0277602	-0.0094602	4.03E-06	1.60E-06	0.000261241
0.178678	-0.0289514	-0.0103969	5.91E-06	2.21E-06	0.000264156

0.178273	-0.0304076	-0.00975502	6.40E-06	1.70E-06	0.000267191
0.177909	-0.0316173	-0.0105911	5.94E-06	2.16E-06	0.000268577
0.177475	-0.0331188	-0.00965116	5.66E-06	1.86E-06	0.000270461
0.177107	-0.0344195	-0.00989134	5.11E-06	2.01E-06	0.000271425
0.193181	-0.0319725	-0.010436	6.63E-06	1.69E-06	0.000294034
0.192827	-0.0331673	-0.0112713	7.78E-06	2.77E-06	0.000296872
0.192384	-0.0347227	-0.0101401	7.56E-06	3.35E-06	0.000299808
0.192015	-0.0359687	-0.0106778	7.09E-06	4.48E-06	0.000301964
0.191616	-0.037316	-0.0106237	7.30E-06	4.98E-06	0.000302244
0.191213	-0.038734	-0.0102759	7.41E-06	4.80E-06	0.000301963
0.207334	-0.0362097	-0.0112755	9.18E-06	2.16E-06	0.000328695
0.206962	-0.0374739	-0.0117171	9.68E-06	3.26E-06	0.000330995
0.206547	-0.0389098	-0.0111732	1.00E-05	3.39E-06	0.000333975
0.206158	-0.0402237	-0.0114186	9.85E-06	4.36E-06	0.000336309
0.205757	-0.0415709	-0.0113644	9.59E-06	4.32E-06	0.000336417
0.205401	-0.0428405	-0.0118012	9.85E-06	5.59E-06	0.000334132
0.221505	-0.0404009	-0.0122707	1.19E-05	3.86E-06	0.000360652
0.221182	-0.0416054	-0.013207	1.26E-05	3.90E-06	0.000363242
0.220681	-0.0431834	-0.0117778	1.31E-05	3.94E-06	0.000364878
0.220283	-0.0445143	-0.0118233	1.31E-05	4.09E-06	0.000366393
0.219952	-0.0457363	-0.0126577	1.28E-05	4.42E-06	0.000366942
0.21948	-0.0472452	-0.0116179	1.26E-05	5.17E-06	0.000365982
0.235712	-0.0445856	-0.0135289	1.55E-05	5.25E-06	0.000383807
0.235337	-0.0459066	-0.0136748	1.57E-05	4.69E-06	0.000386601
0.234844	-0.0474323	-0.0125411	1.58E-05	4.19E-06	0.000387272
0.23446	-0.0487317	-0.0127834	1.55E-05	4.94E-06	0.000388939
0.234073	-0.050084	-0.0128303	1.52E-05	4.09E-06	0.000390125
0.233643	-0.0514788	-0.0124796	1.49E-05	5.35E-06	0.000391028
0.249968	-0.0487339	-0.0149418	1.72E-05	8.39E-06	0.000403517
0.249497	-0.0501947	-0.0142033	1.72E-05	7.63E-06	0.000406014
0.249131	-0.0514643	-0.0146437	1.72E-05	5.89E-06	0.000406274
0.248655	-0.0529757	-0.0137081	1.71E-05	4.60E-06	0.000406519
0.248254	-0.0543078	-0.0137525	1.70E-05	5.39E-06	0.000407816
0.247878	-0.0556289	-0.0138935	1.72E-05	5.14E-06	0.000411754
0.264177	-0.0529647	-0.0158255	1.84E-05	1.08E-05	0.00041487
0.263785	-0.0543202	-0.0158761	1.83E-05	9.88E-06	0.00041728
0.263287	-0.0558098	-0.01494	1.83E-05	7.86E-06	0.000416475
0.262893	-0.0571277	-0.0150842	1.84E-05	7.15E-06	0.000415723
0.262592	-0.0583273	-0.0160132	1.89E-05	6.89E-06	0.000417946
0.262127	-0.0597692	-0.0154695	1.93E-05	7.53E-06	0.000424158
0.278353	-0.0573001	-0.016182	2.03E-05	8.85E-06	0.000438009
0.277959	-0.0586196	-0.0163287	2.00E-05	8.55E-06	0.000432933
0.277601	-0.0599134	-0.0166698	2.00E-05	8.44E-06	0.00043196
0.277077	-0.0614315	-0.0156378	2.03E-05	8.09E-06	0.000434119
0.276735	-0.0626749	-0.0162723	2.09E-05	8.49E-06	0.000432751
0.276315	-0.0640588	-0.0160199	2.12E-05	6.88E-06	0.000437834
0.29261	-0.0615337	-0.0171881	2.14E-05	7.16E-06	0.000443011
0.29217	-0.0629148	-0.0169422	2.11E-05	7.97E-06	0.00043702
0.291865	-0.0641156	-0.0178736	2.09E-05	9.18E-06	0.000437297
0.291395	-0.0655607	-0.0172311	2.13E-05	9.32E-06	0.000444965
0.290972	-0.0669274	-0.0171809	2.15E-05	9.84E-06	0.000448295
0.290577	-0.0682478	-0.0173229	2.25E-05	7.86E-06	0.000451275

0.306805	-0.0658453	-0.0176664	2.26E-05	8.13E-06	0.00045554
0.306397	-0.067182	-0.0177152	2.27E-05	8.82E-06	0.000453695
0.306127	-0.0683765	-0.0187431	2.28E-05	1.03E-05	0.000455826
0.305693	-0.0697429	-0.0185933	2.29E-05	1.14E-05	0.000461029
0.305187	-0.071196	-0.0178531	2.26E-05	1.26E-05	0.000461135
0.304795	-0.0725369	-0.0178957	2.29E-05	1.21E-05	0.000463549
0.321166	-0.0699883	-0.0192837	2.30E-05	1.10E-05	0.000458703
0.32082	-0.0712544	-0.0198232	2.33E-05	8.73E-06	0.000461857
0.320269	-0.0727708	-0.0186927	2.35E-05	9.17E-06	0.000465363
0.320002	-0.073951	-0.0198185	2.43E-05	9.22E-06	0.00047092
0.319526	-0.0753605	-0.0193735	2.40E-05	1.11E-05	0.000473772
0.319092	-0.0767457	-0.0191219	2.40E-05	1.13E-05	0.000474446
0.335451	-0.0742421	-0.0202781	2.34E-05	8.81E-06	0.000450416
0.335083	-0.0755585	-0.0205219	2.33E-05	8.01E-06	0.000454332
0.33467	-0.0768984	-0.0205702	2.38E-05	6.82E-06	0.000457973
0.334271	-0.0782241	-0.0207153	2.40E-05	7.61E-06	0.000463396
0.333805	-0.0796384	-0.0202693	2.47E-05	7.30E-06	0.000464911
0.333382	-0.080975	-0.0202129	2.51E-05	8.09E-06	0.000463166
0.349866	-0.078392	-0.0219161	2.24E-05	7.25E-06	0.000420366
0.349333	-0.0798453	-0.0211828	2.23E-05	6.68E-06	0.000424904
0.349023	-0.0811083	-0.0218171	2.21E-05	6.69E-06	0.000431237
0.348549	-0.0825048	-0.0214728	2.24E-05	6.03E-06	0.000432395
0.348165	-0.083837	-0.0216151	2.37E-05	6.26E-06	0.000429036
0.347632	-0.0852866	-0.0208763	2.48E-05	5.94E-06	0.000427747
0.364185	-0.0826645	-0.0228343	2.18E-05	4.83E-06	0.000392033
0.363642	-0.084117	-0.022102	2.09E-05	6.92E-06	0.000395414
0.363304	-0.0854104	-0.0225403	2.13E-05	5.22E-06	0.000398726
0.362798	-0.0868176	-0.021998	2.14E-05	6.11E-06	0.000404768
0.362538	-0.0880443	-0.0229232	2.23E-05	5.86E-06	0.000406048
0.361996	-0.0894935	-0.0221856	2.29E-05	6.08E-06	0.000404918
0.37856	-0.0869033	-0.0240087	2.05E-05	5.72E-06	0.000378058
0.378058	-0.0883154	-0.0235708	2.02E-05	6.22E-06	0.000376846
0.377627	-0.0896751	-0.0234196	2.02E-05	6.61E-06	0.000380308
0.377274	-0.0909669	-0.0238586	2.04E-05	6.28E-06	0.000384019
0.376888	-0.0923034	-0.0240012	2.03E-05	6.67E-06	0.000387536
0.376473	-0.0936315	-0.024044	2.01E-05	6.11E-06	0.000388853
0.392845	-0.0912296	-0.0245602	1.86E-05	4.18E-06	0.000361315
0.392528	-0.0924982	-0.0251967	1.76E-05	8.23E-06	0.000361493
0.392006	-0.0939245	-0.024558	1.75E-05	7.51E-06	0.000359678
0.391654	-0.0952195	-0.0249971	1.73E-05	7.73E-06	0.000361414
0.391185	-0.0965879	-0.0247486	1.74E-05	5.27E-06	0.000361941
0.390884	-0.0978627	-0.0253784	1.70E-05	5.22E-06	0.000367987
0.407354	-0.0954076	-0.0262452	1.59E-05	3.96E-06	0.000322302
0.406802	-0.0968462	-0.0256144	1.55E-05	5.20E-06	0.000321411
0.406402	-0.0981656	-0.0257591	1.51E-05	6.89E-06	0.000319293
0.406031	-0.099494	-0.0260008	1.54E-05	5.49E-06	0.000319892
0.405485	-0.100914	-0.025363	1.54E-05	4.62E-06	0.000320968
0.40528	-0.102112	-0.0265799	1.58E-05	3.97E-06	0.000336102
0.421715	-0.0997106	-0.0271184	1.26E-05	2.83E-06	0.000279197
0.421352	-0.101008	-0.0274594	1.27E-05	4.06E-06	0.00027908
0.420832	-0.102422	-0.0269204	1.24E-05	4.07E-06	0.000280763
0.42033	-0.103822	-0.0265804	1.26E-05	3.42E-06	0.000280228

0.420081	-0.105046	-0.0275022	1.33E-05	2.45E-06	0.00028162
0.419771	-0.106324	-0.0280309	1.32E-05	4.77E-06	0.000295728
0.436296	-0.103883	-0.0289239	7.51E-06	4.22E-06	0.000231389
0.435793	-0.10527	-0.0285846	8.79E-06	2.76E-06	0.000234511
0.435345	-0.106636	-0.0284358	9.13E-06	1.28E-06	0.00023704
0.434777	-0.108073	-0.0278052	9.76E-06	2.95E-06	0.000241166
0.434653	-0.10923	-0.0293099	8.85E-06	1.49E-06	0.000241578
0.434246	-0.110572	-0.029352	8.73E-06	2.03E-06	0.000254944
0.450746	-0.10815	-0.0300134	3.43E-06	5.09E-06	0.000189317
0.449982	-0.109697	-0.0285134	4.72E-06	2.03E-06	0.000191656
0.449782	-0.110922	-0.0295301	5.52E-06	1.48E-06	0.000196086
0.449293	-0.112296	-0.0292865	5.73E-06	2.11E-06	0.000197053
0.448867	-0.113635	-0.0293329	5.75E-06	2.92E-06	0.000203039
0.448541	-0.114932	-0.0297638	5.55E-06	4.11E-06	0.000214039
0.465067	-0.112509	-0.0304903	1.33E-06	3.02E-06	0.000149297
0.464786	-0.113787	-0.0311194	8.71E-07	1.68E-06	0.000152622
0.464423	-0.115094	-0.0314597	1.79E-06	1.48E-06	0.000156199
0.463707	-0.116602	-0.0301478	1.60E-06	1.86E-06	0.000159775
0.463431	-0.117863	-0.0308735	2.41E-06	3.19E-06	0.000165417
0.479626	-0.116764	-0.0318994	6.92E-07	4.80E-06	0.000107896
0.479151	-0.118131	-0.0317571	2.13E-06	3.91E-06	0.000109505
0.478894	-0.119401	-0.0324815	2.34E-06	1.74E-06	0.000113823
0.478423	-0.120752	-0.0323338	1.96E-06	1.62E-06	0.000118562
0.477948	-0.122118	-0.032188	1.78E-06	1.55E-06	0.000124496
0.494106	-0.121072	-0.0328869	2.76E-06	6.40E-06	6.83E-05
0.493678	-0.122402	-0.0329358	5.35E-06	3.83E-06	6.99E-05
0.493128	-0.123804	-0.0325034	5.14E-06	1.42E-06	7.47E-05
0.492735	-0.125144	-0.0326462	4.94E-06	1.66E-06	8.08E-05
0.492442	-0.126426	-0.0332743	4.15E-06	2.75E-06	8.70E-05
0.499317	-0.128488	-0.0335891	5.29E-06	2.53E-06	6.83E-05
0.498785	-0.129803	-0.0330357	5.43E-06	7.97E-07	7.07E-05
0.492037	-0.127671	-0.0333035	4.24E-06	8.67E-07	8.93E-05
0.499719	-0.12713	-0.0335473	5.50E-06	2.08E-06	6.36E-05
0.50021	-0.125746	-0.0338935	6.32E-06	1.06E-06	5.70E-05
0.500414	-0.12449	-0.0329771	5.69E-06	2.82E-06	5.19E-05
0.50072	-0.123175	-0.0325458	3.30E-06	5.94E-06	4.94E-05
0.494175	-0.120235	-0.0319453	1.35E-06	9.54E-06	6.96E-05
0.500989	-0.122216	-0.0324737	1.83E-06	9.82E-06	4.97E-05
0.477457	-0.123461	-0.0318351	1.43E-06	2.57E-06	0.00012702
0.47976	-0.115931	-0.0312529	1.69E-06	5.41E-06	0.000108211
0.46305	-0.119165	-0.0311104	1.69E-06	6.07E-06	0.000165207
0.465342	-0.111648	-0.0304277	2.38E-06	3.81E-06	0.000150971
0.458171	-0.117912	-0.029777	4.04E-06	5.42E-06	0.000195098
0.448531	-0.114965	-0.0297698	6.71E-06	1.99E-06	0.000217594
0.450949	-0.107359	-0.0297691	3.82E-06	6.00E-06	0.000189765
0.434088	-0.110722	-0.028683	9.89E-06	1.28E-06	0.000256909
0.436394	-0.103173	-0.0281966	7.75E-06	3.81E-06	0.000232985
0.419648	-0.106485	-0.0275618	1.42E-05	3.72E-06	0.000301159
0.421809	-0.0990373	-0.0263966	1.38E-05	2.31E-06	0.000278891
0.405224	-0.102258	-0.0265062	1.60E-05	5.67E-06	0.000340119
0.40742	-0.0948001	-0.0254344	1.74E-05	2.84E-06	0.000322489
0.390838	-0.0980285	-0.0254082	1.78E-05	5.88E-06	0.000368315

0.39303	-0.0905668	-0.0244377	1.99E-05	4.18E-06	0.000360522
0.376396	-0.0938595	-0.023985	2.08E-05	6.45E-06	0.000390006
0.378703	-0.0863015	-0.023697	2.09E-05	4.03E-06	0.000378487
0.361942	-0.0897277	-0.0223281	2.33E-05	5.43E-06	0.000411513
0.364398	-0.0820288	-0.0230175	2.18E-05	5.85E-06	0.000393812
0.347524	-0.0855938	-0.020731	2.48E-05	6.44E-06	0.000436064
0.349854	-0.0780022	-0.0207384	2.30E-05	6.28E-06	0.000418559
0.333276	-0.0813179	-0.0201744	2.47E-05	8.38E-06	0.000469184
0.335582	-0.0737655	-0.0199857	2.32E-05	9.83E-06	0.000449647
0.319082	-0.0770081	-0.0198744	2.40E-05	1.13E-05	0.000474553
0.32126	-0.0695557	-0.0189008	2.29E-05	1.08E-05	0.000458125
0.304825	-0.0727739	-0.0191487	2.34E-05	1.07E-05	0.000464103
0.306917	-0.0654174	-0.0174857	2.23E-05	8.08E-06	0.000452914
0.290401	-0.0687473	-0.016909	2.24E-05	7.31E-06	0.000452772
0.292686	-0.061186	-0.0168202	2.12E-05	7.04E-06	0.000446247
0.276151	-0.0645782	-0.0158114	2.06E-05	7.58E-06	0.000438458
0.278402	-0.0570174	-0.0156235	1.97E-05	9.02E-06	0.000435858
0.261999	-0.0602443	-0.0156573	1.90E-05	8.07E-06	0.000426599
0.264285	-0.0526425	-0.0157634	1.79E-05	9.43E-06	0.000414997
0.247796	-0.0560073	-0.0149766	1.65E-05	7.03E-06	0.00041217
0.250042	-0.0484559	-0.0147883	1.64E-05	7.06E-06	0.000401941
0.233562	-0.0518915	-0.0136698	1.43E-05	5.59E-06	0.000390825
0.235747	-0.0444432	-0.0127909	1.46E-05	4.35E-06	0.000383091
0.219367	-0.0477191	-0.0126174	1.21E-05	6.41E-06	0.000365072
0.221558	-0.0402057	-0.0121325	1.14E-05	4.10E-06	0.000359009
0.205177	-0.0435527	-0.011527	9.35E-06	5.68E-06	0.000332703
0.207384	-0.0360307	-0.0112418	8.73E-06	1.93E-06	0.000328372
0.191056	-0.0393006	-0.0110907	7.19E-06	4.73E-06	0.000301244
0.193232	-0.0317919	-0.0106052	6.23E-06	1.53E-06	0.000293135
0.176888	-0.0351297	-0.0101243	4.34E-06	2.10E-06	0.000270046
0.179039	-0.027767	-0.00885146	3.20E-06	1.88E-06	0.00026001
0.162761	-0.0310103	-0.00892354	1.43E-06	1.83E-06	0.000234156
0.164959	-0.0234054	-0.00902785	1.24E-06	1.68E-06	0.000226338
0.148675	-0.0267247	-0.00867007	6.46E-07	1.45E-06	0.000194379
0.150835	-0.0191832	-0.00837925	8.61E-07	7.43E-07	0.000195838
0.134559	-0.0225244	-0.00798791	1.33E-06	3.15E-06	0.000154577
0.139141	-0.0157262	-0.00769083	1.42E-06	1.32E-06	0.000180067
0.13674	-0.0148406	-0.00848311	2.01E-06	1.12E-06	0.000150705
0.120467	-0.0183346	-0.00716752	2.80E-06	3.41E-06	0.000120213
0.122607	-0.0107698	-0.00707397	3.19E-06	8.23E-07	0.000117471
0.106371	-0.0140376	-0.00700114	3.53E-06	2.40E-06	9.03E-05
0.108519	-0.00647182	-0.00690642	3.58E-06	1.48E-07	8.71E-05
0.0922843	-0.0098008	-0.00650293	3.61E-06	2.35E-06	6.19E-05
0.0944177	-0.00213556	-0.0068973	2.97E-06	1.34E-06	6.09E-05
0.0781988	-0.00554835	-0.00616768	3.36E-06	3.34E-06	3.67E-05
0.080319	0.00212408	-0.00655965	2.25E-06	2.45E-06	3.72E-05
0.0640985	-0.00113142	-0.00657789	2.79E-06	2.23E-06	1.84E-05
0.0662309	0.00634098	-0.0059892	1.74E-06	2.61E-06	1.88E-05
0.0500456	0.00303371	-0.00577843	2.00E-06	9.20E-07	6.97E-06
0.0521121	0.0107512	-0.00636205	1.36E-06	2.65E-06	7.56E-06
0.0456893	0.00531499	-0.00443386	1.32E-06	5.38E-07	3.97E-06
0.045296	0.00461118	-0.00639316	1.21E-06	7.06E-07	3.34E-06

0.0459978	0.00698273	-0.00605411	1.38E-06	1.68E-06	4.87E-06
0.0463818	0.00822609	-0.00551573	1.48E-06	1.71E-06	4.99E-06
0.0467738	0.0095038	-0.00517376	1.32E-06	6.69E-07	4.69E-06
0.0471127	0.0110382	-0.00610388	1.11E-06	1.46E-06	4.36E-06
0.0474359	0.0120331	-0.00550763	1.22E-06	2.25E-06	4.02E-06

Source File beam1lb\_30deg\_fast\_147.5Hz  
 Name:  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 147.5 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0518091	0.00965715	-0.00646857	2.19E-05	1.47E-05	8.17E-06
0.0659021	0.00522006	-0.00610007	2.08E-05	1.41E-05	3.87E-05
0.0655194	0.00399632	-0.00673863	2.30E-05	1.44E-05	3.94E-05
0.0514515	0.00820225	-0.00592999	2.23E-05	1.56E-05	7.82E-06
0.0651674	0.00246775	-0.00580552	2.35E-05	1.45E-05	3.89E-05
0.0510676	0.00688512	-0.00607601	2.24E-05	1.70E-05	7.92E-06
0.0648068	0.0010546	-0.00556195	2.36E-05	1.35E-05	3.88E-05
0.0507038	0.00554413	-0.00612435	2.26E-05	1.72E-05	8.21E-06
0.0644048	-0.000165377	-0.00619569	2.34E-05	1.37E-05	3.78E-05
0.0503316	0.00416883	-0.00597391	2.25E-05	1.62E-05	7.59E-06
0.0799879	0.000839931	-0.00609084	2.25E-05	1.24E-05	9.19E-05
0.0796013	-0.000307685	-0.00712181	2.55E-05	1.33E-05	9.32E-05
0.0792145	-0.00160449	-0.00736545	2.58E-05	1.29E-05	9.28E-05
0.0788548	-0.00314758	-0.00633172	2.52E-05	1.54E-05	9.26E-05
0.078493	-0.00452356	-0.0061813	2.55E-05	1.24E-05	9.19E-05
0.0940739	-0.0034878	-0.00623767	2.48E-05	1.72E-05	0.000159939
0.093696	-0.00465577	-0.00717057	2.77E-05	1.67E-05	0.000159636
0.093318	-0.00617434	-0.00633658	2.77E-05	1.81E-05	0.000158005
0.0929274	-0.00739514	-0.00697158	2.78E-05	1.88E-05	0.000157821
0.0925673	-0.00884422	-0.00642758	2.87E-05	1.45E-05	0.000157736
0.108156	-0.00770449	-0.00703822	2.99E-05	2.87E-05	0.000235845
0.107767	-0.00905324	-0.00708906	3.27E-05	2.63E-05	0.0002335
0.107397	-0.0103346	-0.00743132	3.27E-05	2.85E-05	0.000231394
0.107014	-0.0118144	-0.00669037	3.29E-05	2.92E-05	0.000233629
0.106646	-0.0131872	-0.0065387	3.35E-05	2.43E-05	0.00023239
0.122255	-0.011947	-0.00770389	3.80E-05	3.92E-05	0.000311069
0.121862	-0.0133501	-0.00745957	4.16E-05	3.67E-05	0.000307288
0.121478	-0.0145907	-0.00799748	4.28E-05	3.77E-05	0.000305363
0.121108	-0.0159271	-0.00804335	4.28E-05	3.83E-05	0.000305123
0.120715	-0.0173475	-0.00769688	4.29E-05	3.46E-05	0.000303694
0.136336	-0.0163535	-0.00754834	4.60E-05	5.11E-05	0.000378233
0.135954	-0.0176124	-0.00798897	4.92E-05	4.86E-05	0.000375524
0.135586	-0.0188745	-0.00853047	5.08E-05	5.22E-05	0.000373405
0.135187	-0.020331	-0.00788672	5.20E-05	5.21E-05	0.000374873

0.134801	-0.0216441	-0.00802872	5.22E-05	5.07E-05	0.000372532
0.150434	-0.0205451	-0.00853514	5.47E-05	6.29E-05	0.000436101
0.150071	-0.0218095	-0.00897618	5.80E-05	6.80E-05	0.000435969
0.149681	-0.0231407	-0.00902212	6.11E-05	7.07E-05	0.000436047
0.149294	-0.0245629	-0.00867664	6.16E-05	6.88E-05	0.000435129
0.148893	-0.025981	-0.00822796	6.24E-05	6.44E-05	0.000433517
0.150836	-0.019144	-0.00877881	5.30E-05	6.49E-05	0.000444801
0.164937	-0.0234881	-0.00894177	6.28E-05	8.13E-05	0.000482408
0.164582	-0.0246243	-0.0101736	6.58E-05	8.07E-05	0.000484171
0.164191	-0.0260478	-0.00972899	6.87E-05	8.38E-05	0.000484921
0.16379	-0.0274311	-0.00947956	7.09E-05	8.76E-05	0.00048529
0.163388	-0.0288127	-0.00933027	7.16E-05	8.41E-05	0.000483513
0.163	-0.0302166	-0.00898003	7.16E-05	8.19E-05	0.000481346
0.179037	-0.0277602	-0.0094602	7.21E-05	9.59E-05	0.000509417
0.178678	-0.0289514	-0.0103969	7.70E-05	9.80E-05	0.000514944
0.178273	-0.0304076	-0.00975502	7.89E-05	0.000100056	0.000515831
0.177909	-0.0316173	-0.0105911	8.08E-05	9.90E-05	0.000514905
0.177475	-0.0331188	-0.00965116	8.13E-05	9.91E-05	0.000513397
0.177107	-0.0344195	-0.00989134	8.20E-05	9.55E-05	0.000509993
0.193181	-0.0319725	-0.010436	8.21E-05	0.000109081	0.000517591
0.192827	-0.0331673	-0.0112713	8.62E-05	0.000117781	0.000521731
0.192384	-0.0347227	-0.0101401	8.81E-05	0.000117023	0.00052225
0.192015	-0.0359687	-0.0106778	8.85E-05	0.000111785	0.000519284
0.191616	-0.037316	-0.0106237	9.07E-05	0.000111197	0.000517554
0.191213	-0.038734	-0.0102759	9.20E-05	0.000110391	0.00051776
0.207334	-0.0362097	-0.0112755	9.27E-05	0.000132777	0.000513185
0.206962	-0.0374739	-0.0117171	9.56E-05	0.000141784	0.000512347
0.206547	-0.0389098	-0.0111732	9.62E-05	0.000140067	0.000510526
0.206158	-0.0402237	-0.0114186	9.71E-05	0.000131435	0.000507284
0.205757	-0.0415709	-0.0113644	9.98E-05	0.000126452	0.000506547
0.205401	-0.0428405	-0.0118012	0.000100894	0.000126017	0.000507441
0.221505	-0.0404009	-0.0122707	0.000100927	0.000154194	0.000490313
0.221182	-0.0416054	-0.013207	0.000101642	0.000159673	0.000484526
0.220681	-0.0431834	-0.0117778	0.000101093	0.000156478	0.000482914
0.220283	-0.0445143	-0.0118233	0.000103067	0.00015276	0.000480328
0.219952	-0.0457363	-0.0126577	0.000105801	0.000148657	0.000479454
0.21948	-0.0472452	-0.0116179	0.000106283	0.000145529	0.000479335
0.235712	-0.0445856	-0.0135289	0.000104857	0.00017329	0.000438895
0.235337	-0.0459066	-0.0136748	0.000103892	0.000171052	0.000433963
0.234844	-0.0474323	-0.0125411	0.00010573	0.000171335	0.000432717
0.23446	-0.0487317	-0.0127834	0.000107922	0.000170447	0.00043085
0.234073	-0.050084	-0.0128303	0.000110276	0.000169098	0.000431297
0.233643	-0.0514788	-0.0124796	0.000109728	0.000167403	0.000431056
0.249968	-0.0487339	-0.0149418	0.000104592	0.000183513	0.000369247
0.249497	-0.0501947	-0.0142033	0.0001056	0.000187453	0.000364018
0.249131	-0.0514643	-0.0146437	0.000107277	0.000187675	0.000363685
0.248655	-0.0529757	-0.0137081	0.000110638	0.000188411	0.000364102
0.248254	-0.0543078	-0.0137525	0.000111717	0.000189747	0.000366242
0.247878	-0.0556289	-0.0138935	0.000111758	0.000189594	0.000369086
0.264177	-0.0529647	-0.0158255	0.000104526	0.000200564	0.000290124
0.263785	-0.0543202	-0.0158761	0.000104666	0.000201789	0.000283697
0.263287	-0.0558098	-0.01494	0.000106634	0.000204701	0.000282882

0.262893	-0.0571277	-0.0150842	0.000108511	0.000203215	0.000282665
0.262592	-0.0583273	-0.0160132	0.000109928	0.000204169	0.000282964
0.262127	-0.0597692	-0.0154695	0.000110581	0.00020186	0.000282821
0.278353	-0.0573001	-0.016182	0.00010375	0.000214995	0.000198685
0.277959	-0.0586196	-0.0163287	0.000103882	0.000216846	0.000192568
0.277601	-0.0599134	-0.0166698	0.000104871	0.000216392	0.00019225
0.277077	-0.0614315	-0.0156378	0.000106991	0.000215942	0.000192563
0.276735	-0.0626749	-0.0162723	0.000107926	0.000214826	0.00018998
0.276315	-0.0640588	-0.0160199	0.000109515	0.000212026	0.000187718
0.29261	-0.0615337	-0.0171881	0.000102227	0.00022813	9.68E-05
0.29217	-0.0629148	-0.0169422	0.00010076	0.000230451	9.19E-05
0.291865	-0.0641156	-0.0178736	0.000101151	0.000232098	9.11E-05
0.291395	-0.0655607	-0.0172311	0.000102413	0.000233688	9.17E-05
0.290972	-0.0669274	-0.0171809	0.000105382	0.000234078	9.09E-05
0.290577	-0.0682478	-0.0173229	0.000107442	0.000233336	8.75E-05
0.306805	-0.0658453	-0.0176664	9.91E-05	0.000242068	3.30E-05
0.306397	-0.067182	-0.0177152	9.53E-05	0.000243565	3.44E-05
0.306127	-0.0683765	-0.0187431	9.41E-05	0.00024511	3.54E-05
0.305693	-0.0697429	-0.0185933	9.67E-05	0.000247648	3.53E-05
0.305187	-0.071196	-0.0178531	9.96E-05	0.000247	3.49E-05
0.304795	-0.0725369	-0.0178957	0.000101425	0.000246796	3.44E-05
0.321166	-0.0699883	-0.0192837	9.35E-05	0.000256664	0.000120891
0.32082	-0.0712544	-0.0198232	8.94E-05	0.000258071	0.000124433
0.320269	-0.0727708	-0.0186927	8.89E-05	0.000257276	0.000125904
0.320002	-0.073951	-0.0198185	9.08E-05	0.000258206	0.000125965
0.319526	-0.0753605	-0.0193735	9.27E-05	0.000256397	0.000126153
0.319092	-0.0767457	-0.0191219	9.19E-05	0.00025679	0.000127557
0.335451	-0.0742421	-0.0202781	8.65E-05	0.000263422	0.00021708
0.335083	-0.0755585	-0.0205219	8.33E-05	0.000263807	0.000221222
0.33467	-0.0768984	-0.0205702	8.22E-05	0.000263902	0.000224992
0.334271	-0.0782241	-0.0207153	8.33E-05	0.000265537	0.000226432
0.333805	-0.0796384	-0.0202693	8.39E-05	0.000264807	0.000226587
0.333382	-0.080975	-0.0202129	8.50E-05	0.000264135	0.000228205
0.349866	-0.078392	-0.0219161	7.86E-05	0.000266582	0.000305527
0.349333	-0.0798453	-0.0211828	7.62E-05	0.000266273	0.000309689
0.349023	-0.0811083	-0.0218171	7.46E-05	0.000264647	0.000316427
0.348549	-0.0825048	-0.0214728	7.51E-05	0.000268081	0.000319196
0.348165	-0.083837	-0.0216151	7.64E-05	0.000271073	0.00031803
0.347632	-0.0852866	-0.0208763	7.72E-05	0.000271382	0.000317591
0.364185	-0.0826645	-0.0228343	6.73E-05	0.000265362	0.000381711
0.363642	-0.084117	-0.022102	6.63E-05	0.000263362	0.00038474
0.363304	-0.0854104	-0.0225403	6.68E-05	0.000262575	0.000390786
0.362798	-0.0868176	-0.021998	6.72E-05	0.0002645	0.0003945
0.362538	-0.0880443	-0.0229232	6.72E-05	0.000270161	0.00039556
0.361996	-0.0894935	-0.0221856	6.70E-05	0.000272033	0.0003956
0.37856	-0.0869033	-0.0240087	5.85E-05	0.000263155	0.000441296
0.378058	-0.0883154	-0.0235708	5.72E-05	0.000261305	0.000444499
0.377627	-0.0896751	-0.0234196	5.71E-05	0.000260001	0.000448347
0.377274	-0.0909669	-0.0238586	5.70E-05	0.000260549	0.000451755
0.376888	-0.0923034	-0.0240012	5.65E-05	0.000264317	0.000453536
0.376473	-0.0936315	-0.024044	5.62E-05	0.000266743	0.000456189
0.392845	-0.0912296	-0.0245602	5.29E-05	0.000259077	0.000477732

0.392528	-0.0924982	-0.0251967	5.04E-05	0.000255022	0.000482247
0.392006	-0.0939245	-0.024558	4.83E-05	0.000254143	0.000485461
0.391654	-0.0952195	-0.0249971	4.80E-05	0.000254664	0.000488415
0.391185	-0.0965879	-0.0247486	4.77E-05	0.000259821	0.000492502
0.390884	-0.0978627	-0.0253784	4.78E-05	0.00026268	0.000496614
0.407354	-0.0954076	-0.0262452	4.69E-05	0.000248488	0.000491629
0.406802	-0.0968462	-0.0256144	4.42E-05	0.000244423	0.000496318
0.406402	-0.0981656	-0.0257591	4.16E-05	0.000243069	0.000497972
0.406031	-0.099494	-0.0260008	3.96E-05	0.000242841	0.000501928
0.405485	-0.100914	-0.025363	3.96E-05	0.000247502	0.000507642
0.40528	-0.102112	-0.0265799	3.99E-05	0.000249671	0.000511622
0.421715	-0.0997106	-0.0271184	4.02E-05	0.000232575	0.000487633
0.421352	-0.101008	-0.0274594	3.87E-05	0.00023334	0.000490192
0.420832	-0.102422	-0.0269204	3.58E-05	0.000232303	0.000491613
0.42033	-0.103822	-0.0265804	3.27E-05	0.000229376	0.000497358
0.420081	-0.105046	-0.0275022	3.14E-05	0.000230985	0.000501737
0.419771	-0.106324	-0.0280309	3.11E-05	0.000234049	0.000505291
0.436296	-0.103883	-0.0289239	3.65E-05	0.000215733	0.000461039
0.435793	-0.10527	-0.0285846	3.35E-05	0.000216424	0.000464344
0.435345	-0.106636	-0.0284358	3.11E-05	0.000213815	0.000467985
0.434777	-0.108073	-0.0278052	2.78E-05	0.000211689	0.000474614
0.434653	-0.10923	-0.0293099	2.70E-05	0.000213841	0.000478732
0.434246	-0.110572	-0.029352	2.65E-05	0.000218551	0.000478113
0.450746	-0.10815	-0.0300134	3.34E-05	0.000196101	0.000414004
0.449982	-0.109697	-0.0285134	3.09E-05	0.000194538	0.00041882
0.449782	-0.110922	-0.0295301	2.88E-05	0.000192303	0.000423485
0.449293	-0.112296	-0.0292865	2.55E-05	0.000189738	0.000428687
0.448867	-0.113635	-0.0293329	2.36E-05	0.000192264	0.000433666
0.448541	-0.114932	-0.0297638	2.29E-05	0.000195572	0.000441343
0.465067	-0.112509	-0.0304903	2.88E-05	0.000163704	0.000355193
0.464786	-0.113787	-0.0311194	2.80E-05	0.00016522	0.000358777
0.464423	-0.115094	-0.0314597	2.65E-05	0.000166805	0.000361782
0.463707	-0.116602	-0.0301478	2.35E-05	0.000168349	0.000365238
0.463431	-0.117863	-0.0308735	2.10E-05	0.000172096	0.000372791
0.479626	-0.116764	-0.0318994	2.36E-05	0.000127989	0.000281658
0.479151	-0.118131	-0.0317571	2.22E-05	0.000127886	0.00028317
0.478894	-0.119401	-0.0324815	2.02E-05	0.000130224	0.000285102
0.478423	-0.120752	-0.0323338	1.85E-05	0.000132845	0.00028776
0.477948	-0.122118	-0.032188	1.85E-05	0.000141122	0.000296401
0.494106	-0.121072	-0.0328869	2.15E-05	0.000102406	0.000201348
0.493678	-0.122402	-0.0329358	2.00E-05	0.000100031	0.000202544
0.493128	-0.123804	-0.0325034	1.73E-05	9.99E-05	0.000208386
0.492735	-0.125144	-0.0326462	1.69E-05	0.000101047	0.000212679
0.492442	-0.126426	-0.0332743	1.70E-05	0.000107577	0.000219431
0.499317	-0.128488	-0.0335891	1.61E-05	8.69E-05	0.000179261
0.498785	-0.129803	-0.0330357	1.61E-05	8.62E-05	0.00018358
0.492037	-0.127671	-0.0333035	1.66E-05	0.000111209	0.000223018
0.499719	-0.12713	-0.0335473	1.67E-05	8.86E-05	0.000174257
0.50021	-0.125746	-0.0338935	1.72E-05	9.09E-05	0.000170402
0.500414	-0.12449	-0.0329771	1.90E-05	9.04E-05	0.000164752
0.50072	-0.123175	-0.0325458	2.01E-05	8.70E-05	0.000162803
0.494175	-0.120235	-0.0319453	2.19E-05	0.000103327	0.000203863

0.500989	-0.122216	-0.0324737	2.03E-05	8.65E-05	0.000164501
0.477457	-0.123461	-0.0318351	1.81E-05	0.000145942	0.000299082
0.47976	-0.115931	-0.0312529	2.37E-05	0.000128459	0.000284404
0.46305	-0.119165	-0.0311104	2.01E-05	0.000173835	0.000369055
0.465342	-0.111648	-0.0304277	2.87E-05	0.000163299	0.000358045
0.458171	-0.117912	-0.0297777	2.15E-05	0.000185254	0.000416027
0.448531	-0.114965	-0.0297698	2.29E-05	0.000197044	0.000444727
0.450949	-0.107359	-0.0297691	3.43E-05	0.000195278	0.000417404
0.434088	-0.110722	-0.028683	2.63E-05	0.000219768	0.000481478
0.436394	-0.103173	-0.0281966	3.71E-05	0.000216067	0.000463458
0.419648	-0.106485	-0.0275618	3.12E-05	0.000235358	0.000507647
0.421809	-0.0990373	-0.0263966	4.05E-05	0.000233479	0.000487331
0.405224	-0.102258	-0.0265062	3.99E-05	0.000250719	0.000514921
0.40742	-0.0948001	-0.0254344	4.75E-05	0.000251543	0.00049063
0.390838	-0.0980285	-0.0254082	4.81E-05	0.000263163	0.000497024
0.39303	-0.0905668	-0.0244377	5.42E-05	0.000261461	0.000475034
0.376396	-0.0938595	-0.023985	5.66E-05	0.000267554	0.00045548
0.378703	-0.0863015	-0.023697	5.93E-05	0.000263299	0.000439405
0.361942	-0.0897277	-0.0223281	6.72E-05	0.000271556	0.000394814
0.364398	-0.0820288	-0.0230175	6.80E-05	0.000265973	0.000381076
0.347524	-0.0855938	-0.020731	7.84E-05	0.000271236	0.000316845
0.349854	-0.0780022	-0.0207384	7.97E-05	0.000265701	0.000304206
0.333276	-0.0813179	-0.0201744	8.65E-05	0.000264002	0.000228351
0.335582	-0.0737655	-0.0199857	8.75E-05	0.000260289	0.000215665
0.319082	-0.0770081	-0.0198744	9.30E-05	0.000255144	0.000127754
0.32126	-0.0695557	-0.0189008	9.51E-05	0.000253207	0.000118553
0.304825	-0.0727739	-0.0191487	0.000101826	0.000243987	3.35E-05
0.306917	-0.0654174	-0.0174857	0.000100388	0.00023784	3.14E-05
0.290401	-0.0687473	-0.016909	0.000108565	0.000229476	8.78E-05
0.292686	-0.061186	-0.0168202	0.000102096	0.000224927	9.92E-05
0.276151	-0.0645782	-0.0158114	0.000110341	0.000211668	0.00018724
0.278402	-0.0570174	-0.0156235	0.000103895	0.000212423	0.000199693
0.261999	-0.0602443	-0.0156573	0.000110383	0.000200381	0.000283828
0.264285	-0.0526425	-0.0157634	0.000104764	0.000196289	0.000292309
0.247796	-0.0560073	-0.0149766	0.000110283	0.000187901	0.000368738
0.250042	-0.0484559	-0.0147883	0.000105328	0.000181377	0.000370579
0.233562	-0.0518915	-0.0136698	0.000108209	0.000165921	0.00043162
0.235747	-0.0444432	-0.0127909	0.000104136	0.000166351	0.000439526
0.219367	-0.0477191	-0.0126174	0.000104617	0.000144081	0.000478794
0.221558	-0.0402057	-0.0121325	9.92E-05	0.000148685	0.000492907
0.205177	-0.0435527	-0.011527	9.91E-05	0.000126351	0.000508902
0.207384	-0.0360307	-0.0112418	8.97E-05	0.00012299	0.000515701
0.191056	-0.0393006	-0.0110907	9.13E-05	0.000108696	0.000516312
0.193232	-0.0317919	-0.0106052	7.96E-05	0.000105534	0.000517583
0.176888	-0.0351297	-0.0101243	8.17E-05	9.34E-05	0.000508053
0.179039	-0.027767	-0.00885146	7.05E-05	9.42E-05	0.000507996
0.162761	-0.0310103	-0.00892354	7.17E-05	7.81E-05	0.000478711
0.164959	-0.0234054	-0.00902785	6.07E-05	8.11E-05	0.000480909
0.148675	-0.0267247	-0.00867007	6.13E-05	6.07E-05	0.000430968
0.150835	-0.0191832	-0.00837925	5.27E-05	6.58E-05	0.000445702
0.134559	-0.0225244	-0.00798791	5.15E-05	4.64E-05	0.00037082
0.139141	-0.0157262	-0.00769083	4.95E-05	5.93E-05	0.000424317

0.13674	-0.0148406	-0.00848311	4.48E-05	4.93E-05	0.000376935
0.120467	-0.0183346	-0.00716752	4.11E-05	3.15E-05	0.000300819
0.122607	-0.0107698	-0.00707397	3.70E-05	3.78E-05	0.000309975
0.106371	-0.0140376	-0.00700114	3.33E-05	2.02E-05	0.000231628
0.108519	-0.00647182	-0.00690642	2.95E-05	2.56E-05	0.000235629
0.0922843	-0.0098008	-0.00650293	2.84E-05	9.45E-06	0.000158045
0.0944177	-0.00213556	-0.0068973	2.45E-05	1.34E-05	0.000159948
0.0781988	-0.00554835	-0.00616768	2.47E-05	1.02E-05	9.20E-05
0.080319	0.00212408	-0.00655965	2.17E-05	1.00E-05	9.07E-05
0.0640985	-0.00113142	-0.00657789	2.34E-05	1.25E-05	3.77E-05
0.0662309	0.00634098	-0.0059892	2.06E-05	1.23E-05	3.82E-05
0.0500456	0.00303371	-0.00577843	2.31E-05	1.59E-05	7.23E-06
0.0521121	0.0107512	-0.00636205	2.17E-05	1.50E-05	7.50E-06
0.0456893	0.00531499	-0.00443386	2.24E-05	1.70E-05	1.09E-05
0.045296	0.00461118	-0.00639316	2.33E-05	1.59E-05	1.07E-05
0.0459978	0.00698273	-0.00605411	2.26E-05	1.77E-05	1.11E-05
0.0463818	0.00822609	-0.00551573	2.24E-05	1.70E-05	1.10E-05
0.0467738	0.0095038	-0.00517376	2.22E-05	1.62E-05	1.10E-05
0.0471127	0.0110382	-0.00610388	2.17E-05	1.78E-05	1.15E-05
0.0474359	0.0120331	-0.00550763	2.14E-05	1.88E-05	1.13E-05

Source File beam1lb\_45deg\_fastFixed\_150Hz

Name:

Signal: FFT - Vib 3D Velocity - Magnitude

dB-Reference: 0 dB = 1 m/s

Band No.: 1

Frequency: 150.0 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0583837	0.0206458	-0.0072461	6.66E-06	7.04E-05	0.00017363
0.0584315	0.0194134	-0.0074182	7.74E-06	7.34E-05	0.000164628
0.0585997	0.0178282	-0.006661	1.16E-05	7.26E-05	0.000161987
0.0585877	0.0167929	-0.0072866	1.76E-05	6.25E-05	0.00015809
0.058758	0.0152336	-0.0066255	2.54E-05	6.19E-05	0.000155847
0.0586861	0.0143666	-0.007716	2.76E-05	6.42E-05	0.000156383
0.0588427	0.0128084	-0.0070504	2.91E-05	7.34E-05	0.00015637
0.0589513	0.0113966	-0.0067527	2.90E-05	7.67E-05	0.000165578
0.0705702	0.0203592	-0.0069374	4.08E-06	9.48E-05	0.000281979
0.0705931	0.0192016	-0.007293	3.82E-06	9.53E-05	0.000279164
0.0706967	0.0178244	-0.0070948	1.09E-05	9.43E-05	0.000279894
0.0708199	0.016351	-0.0066111	1.57E-05	8.82E-05	0.000279354
0.0707765	0.0154129	-0.0075177	2.25E-05	8.76E-05	0.000280092
0.0708665	0.0140366	-0.0073139	2.59E-05	9.17E-05	0.000281263
0.0710372	0.0124438	-0.0065551	3.27E-05	0.000100225	0.000285771
0.0709941	0.0115045	-0.0074587	3.47E-05	0.00010714	0.000291488
0.0826862	0.0203511	-0.0073642	9.83E-06	0.000149555	0.000456972
0.082749	0.019047	-0.0073494	1.35E-05	0.000149734	0.000455271

0.0828222	0.0177067	-0.0072408	2.16E-05	0.000145974	0.000455372
0.0827832	0.016783	-0.0081431	2.55E-05	0.000138042	0.000454983
0.0828909	0.0153704	-0.0078484	3.00E-05	0.000134895	0.000456632
0.0830153	0.0138491	-0.0072731	3.23E-05	0.000134	0.000456745
0.0831296	0.0123655	-0.0067887	4.18E-05	0.000141516	0.000459612
0.0830707	0.0114996	-0.0078775	4.66E-05	0.000146713	0.000465709
0.0947553	0.0205235	-0.0082428	2.33E-05	0.000200106	0.000653457
0.0948229	0.0191827	-0.0081347	2.51E-05	0.000196759	0.000650606
0.094807	0.0181728	-0.0088583	3.35E-05	0.00019713	0.000651409
0.094898	0.0168097	-0.0086511	3.98E-05	0.00020193	0.000684367
0.0949937	0.0153604	-0.0082613	5.07E-05	0.000203684	0.000686946
0.0950431	0.0140945	-0.0083331	5.05E-05	0.000191461	0.000692909
0.0950647	0.0129247	-0.008687	5.66E-05	0.000192472	0.0006576
0.0952302	0.0112604	-0.0077377	5.85E-05	0.000194524	0.000660086
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0.106982	0.0179882	-0.0087958	4.51E-05	0.000269875	0.000901291
0.107016	0.0168323	-0.0091486	5.74E-05	0.00028353	0.000966646
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0.107263	0.0115382	-0.0088805	7.39E-05	0.000273171	0.000882187
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0.131236	0.0171219	-0.0107621	9.36E-05	0.000437815	0.00128535
0.131268	0.0158921	-0.0109264	0.000100604	0.000426492	0.00131815
0.131345	0.0143935	-0.0104446	0.000111171	0.0004251	0.00134239
0.131398	0.0131284	-0.0105142	0.000120247	0.000411835	0.0013123
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0.143336	0.0195916	-0.0108974	9.14E-05	0.000500605	0.00148584
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0.155607	0.0158715	-0.0117546	0.00012868	0.00055624	0.00159956
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0.16781	0.014593	-0.0122715	0.000150724	0.000641565	0.00169382

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0.192171	0.0150907	-0.0144245	0.000177601	0.000817442	0.00178226
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0.429434	0.00970256	-0.0466247	0.000382311	0.00100145	0.00176288
0.44427	0.0182356	-0.0485388	0.000340836	0.000980603	0.00178211
0.442625	0.0168548	-0.0484306	0.000342094	0.000965678	0.00175724
0.442635	0.0156867	-0.0488759	0.000348986	0.000958966	0.00175303
0.442596	0.0144268	-0.0490384	0.000352255	0.000957372	0.00174048
0.442444	0.0129077	-0.0485597	0.000361959	0.000951586	0.00173007
0.442267	0.0113689	-0.0479818	0.000375518	0.000954561	0.00172076
0.442423	0.0104794	-0.049158	0.00037818	0.000940136	0.00169983

0.442449	0.00934553	-0.04969	0.000376737	0.000920629	0.00165461
0.455593	0.0186943	-0.0502222	0.000322484	0.000865551	0.00161438
0.455533	0.0173958	-0.0502966	0.000323773	0.000864099	0.00160645
0.455522	0.016153	-0.0505567	0.000330611	0.000861931	0.00159495
0.455532	0.0149952	-0.0509967	0.000335359	0.000862821	0.0015807
0.455402	0.0135432	-0.0507046	0.000343259	0.000858581	0.00157319
0.45522	0.0120013	-0.0501295	0.000359079	0.000857139	0.00156124
0.455191	0.0107245	-0.0502924	0.000361352	0.000839289	0.00152488
0.455217	0.00960172	-0.0508198	0.000358884	0.000810215	0.00145798
0.468553	0.0180322	-0.0524175	0.00030846	0.000787934	0.00145903
0.468471	0.0166814	-0.052406	0.000311092	0.000773982	0.00142393
0.468463	0.0154851	-0.0527552	0.000315053	0.000776173	0.00141111
0.468325	0.0140441	-0.0524601	0.000325397	0.000775673	0.0013994
0.468239	0.0126587	-0.0523502	0.00033781	0.00077363	0.0013841
0.468156	0.0113236	-0.052328	0.000346888	0.000765768	0.00136822
0.46811	0.0100584	-0.0524885	0.000346739	0.000748535	0.0013338
0.468302	0.00922879	-0.0538493	0.000344407	0.000743029	0.00126961
0.481422	0.0183451	-0.0536992	0.00027567	0.000663595	0.00120003
0.481407	0.0170954	-0.0539619	0.000280828	0.000661741	0.0011951
0.481301	0.0157211	-0.0538538	0.000284515	0.000664475	0.00118565
0.481253	0.0144519	-0.0540195	0.000293964	0.00066549	0.00117233
0.481128	0.0130438	-0.053817	0.000306487	0.000665652	0.00115686
0.48104	0.0117058	-0.0537966	0.000318228	0.000663218	0.00114915
0.481121	0.01063	-0.0545122	0.000323652	0.000661838	0.00109907
0.480976	0.00918868	-0.0542138	0.000312608	0.000620228	0.00100355
0.494667	0.0192446	-0.0565195	0.000232926	0.000536003	0.000948228
0.494516	0.017796	-0.0562321	0.000235682	0.000536959	0.000947622
0.494318	0.0162426	-0.0556658	0.000244592	0.000542561	0.000939395
0.494408	0.0151992	-0.0564797	0.000256283	0.000544234	0.000920584
0.494396	0.0139955	-0.0568294	0.000264998	0.000543493	0.000909707
0.494144	0.0123763	-0.0560782	0.000282917	0.000544236	0.000899535
0.494026	0.0109648	-0.0558725	0.000288682	0.000543737	0.000889629
0.494155	0.0100029	-0.0568604	0.000288397	0.000523929	0.000836123
0.494203	0.00890227	-0.0574806	0.000271668	0.000479433	0.000787476
0.507701	0.0185069	-0.0585786	0.000212654	0.000462395	0.000796113
0.50764	0.0171935	-0.0586551	0.000216798	0.00044443	0.000739056
0.507461	0.015708	-0.0582762	0.000229628	0.00044545	0.00072272
0.507385	0.0143967	-0.0583529	0.000238662	0.000445152	0.000709655
0.507562	0.0135	-0.0595261	0.000256026	0.000447623	0.000701865
0.50713	0.0116027	-0.058045	0.000265921	0.000449502	0.000690411
0.507236	0.0105664	-0.0588472	0.000270851	0.000450642	0.000679454
0.507055	0.00908454	-0.0584611	0.000257149	0.000420498	0.000669686
0.507691	0.00893742	-0.061646	0.000238728	0.000408433	0.000675213

Source File beam1b\_neg15deg\_fast\_47.5Hz

Name:

Signal: FFT - Vib 3D Velocity - Magnitude

dB-Reference: 0 dB = 1 m/s

Band No.: 1

Frequency: 47.50 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0660169	0.0257304	-0.0055982	1.22E-06	9.01E-07	5.02E-06
0.0789819	0.0261021	-0.0042086	1.65E-06	1.34E-06	8.79E-06
0.0790156	0.0240105	-0.0049404	1.47E-06	4.63E-07	1.15E-05
0.0660401	0.0236369	-0.0063297	1.21E-06	1.04E-06	5.18E-06
0.0790153	0.0217801	-0.0060444	1.35E-06	9.17E-07	1.20E-05
0.0661633	0.0222611	-0.0050883	1.34E-06	8.81E-07	5.90E-06
0.0791653	0.020681	-0.0040503	1.35E-06	5.47E-07	1.12E-05
0.0661496	0.0200109	-0.0061834	1.46E-06	1.03E-06	5.47E-06
0.0792035	0.0186027	-0.0046751	1.19E-06	1.20E-06	1.08E-05
0.0662398	0.0183953	-0.0055952	1.55E-06	2.05E-06	5.91E-06
0.0918655	0.0259455	-0.0043309	1.79E-06	4.47E-07	1.48E-05
0.0919586	0.0243499	-0.0036473	1.87E-06	9.16E-07	1.85E-05
0.0919997	0.0222237	-0.0044707	2.09E-06	1.33E-06	2.07E-05
0.0920845	0.020749	-0.0035078	1.76E-06	1.80E-06	2.09E-05
0.0921227	0.0185857	-0.0044204	1.40E-06	1.88E-06	2.13E-05
0.104799	0.0262484	-0.003135	1.90E-06	8.09E-07	2.41E-05
0.104866	0.0243298	-0.0033968	2.21E-06	2.59E-06	2.64E-05
0.104958	0.0227358	-0.0027112	2.60E-06	2.96E-06	2.75E-05
0.105003	0.0207473	-0.0031563	2.48E-06	3.62E-06	2.87E-05
0.105078	0.0189297	-0.0031304	1.91E-06	1.92E-06	2.92E-05
0.117716	0.0263461	-0.0025059	2.34E-06	2.60E-06	3.43E-05
0.117779	0.0245655	-0.0023914	2.31E-06	3.37E-06	3.74E-05
0.11786	0.0227845	-0.0022753	3.10E-06	4.81E-06	3.88E-05
0.11794	0.0209513	-0.0022447	3.05E-06	4.46E-06	3.96E-05
0.117995	0.0186518	-0.0035323	2.59E-06	2.62E-06	3.78E-05
0.130705	0.0246294	-0.0018589	2.94E-06	4.33E-06	4.73E-05
0.13077	0.022815	-0.0018361	3.69E-06	6.05E-06	4.80E-05
0.130859	0.0211722	-0.001342	3.94E-06	6.01E-06	4.85E-05
0.130943	0.0193396	-0.0013091	3.76E-06	4.02E-06	4.82E-05
0.143603	0.0248299	-0.0009533	3.82E-06	4.66E-06	6.02E-05
0.143692	0.0230166	-0.0009302	4.46E-06	6.87E-06	6.25E-05
0.143781	0.0213405	-0.0005296	4.51E-06	7.36E-06	6.30E-05
0.14385	0.0193364	-0.0009654	4.61E-06	5.29E-06	6.35E-05
0.14394	0.0177119	-0.0004737	4.72E-06	3.95E-06	6.14E-05
0.131001	0.0172301	-0.0021312	4.12E-06	2.25E-06	5.06E-05
0.156599	0.0231832	-0.0001209	5.39E-06	7.53E-06	7.14E-05
0.156673	0.0214736	0.00018625	5.44E-06	7.38E-06	7.09E-05
0.156767	0.0195394	-6.14E-05	5.49E-06	7.06E-06	7.18E-05
0.156859	0.0178122	0.00014932	5.50E-06	5.95E-06	6.86E-05
0.169493	0.0234179	0.00087345	6.06E-06	8.11E-06	8.01E-05
0.169591	0.0216061	0.00089951	5.96E-06	8.64E-06	8.21E-05
0.169669	0.0198283	0.00102117	5.87E-06	8.53E-06	8.36E-05
0.169768	0.0179809	0.00095736	5.84E-06	9.44E-06	8.05E-05
0.182372	0.0237038	0.00195231	6.29E-06	9.56E-06	8.59E-05
0.182486	0.021669	0.00142214	6.30E-06	9.18E-06	8.68E-05
0.18258	0.0199953	0.00182621	6.33E-06	9.48E-06	9.12E-05
0.182668	0.018114	0.0016689	6.31E-06	9.27E-06	8.89E-05
0.182774	0.0162319	0.00151407	6.24E-06	9.68E-06	8.59E-05

0.169856	0.0164106	0.00164577	5.83E-06	9.42E-06	7.83E-05
0.195339	0.0222132	0.00325572	6.51E-06	9.75E-06	9.42E-05
0.195449	0.0203687	0.00319101	6.85E-06	8.81E-06	9.38E-05
0.195558	0.0185234	0.00312835	7.08E-06	9.49E-06	9.41E-05
0.195649	0.0166772	0.00306727	6.85E-06	9.95E-06	9.29E-05
0.208187	0.0225844	0.00461675	6.98E-06	9.95E-06	0.000101136
0.208283	0.0207408	0.00455202	7.72E-06	1.03E-05	0.000103044
0.208405	0.0188449	0.00429601	7.91E-06	1.07E-05	0.000101481
0.208534	0.0168436	0.00386764	7.56E-06	1.16E-05	9.86E-05
0.221114	0.0211124	0.00591095	8.66E-06	1.07E-05	0.000111535
0.221263	0.0191135	0.00537377	8.77E-06	1.20E-05	0.000112201
0.221383	0.0172519	0.005321	8.75E-06	1.29E-05	0.00011776
0.221464	0.0157204	0.00610668	9.03E-06	1.25E-05	0.000118736
0.208638	0.015102	0.00409091	7.74E-06	1.03E-05	9.82E-05
0.233946	0.0216208	0.00764077	9.69E-06	1.21E-05	0.000128708
0.234106	0.0195543	0.00691773	9.74E-06	1.21E-05	0.000133291
0.234228	0.0175896	0.0065838	9.65E-06	1.34E-05	0.000133918
0.234353	0.0157457	0.0065274	9.42E-06	1.38E-05	0.000132165
0.246775	0.0218864	0.00871112	9.98E-06	1.37E-05	0.000131599
0.246951	0.0197861	0.00789562	1.10E-05	1.50E-05	0.00015026
0.247011	0.0182558	0.00867943	1.13E-05	1.59E-05	0.000155074
0.24717	0.0162222	0.00816213	1.12E-05	1.69E-05	0.000153058
0.259762	0.0200855	0.00905657	1.19E-05	1.94E-05	0.000169104
0.259851	0.0184868	0.00965477	1.23E-05	1.99E-05	0.000169078
0.260058	0.0162451	0.00857756	1.25E-05	2.05E-05	0.000167005
0.260115	0.0148203	0.00964699	1.28E-05	1.98E-05	0.000167166
0.247271	0.0145534	0.00857616	1.14E-05	1.77E-05	0.000155394
0.272534	0.0206262	0.0108702	1.24E-05	2.05E-05	0.000179549
0.272576	0.019167	0.0118416	1.28E-05	2.10E-05	0.000178934
0.272767	0.0170836	0.011133	1.30E-05	2.17E-05	0.00017572
0.272959	0.0149808	0.0104334	1.29E-05	2.10E-05	0.000172278
0.285458	0.0190828	0.0119679	1.29E-05	2.06E-05	0.000178965
0.285563	0.0174162	0.0123821	1.29E-05	2.17E-05	0.000176294
0.285717	0.0155406	0.0122378	1.29E-05	2.19E-05	0.000178473
0.298188	0.0196561	0.0138667	1.28E-05	2.03E-05	0.000176765
0.298338	0.0177468	0.0136265	1.28E-05	2.06E-05	0.000173775
0.298488	0.0159066	0.0135766	1.33E-05	2.15E-05	0.000182696
0.298577	0.0142929	0.0141883	1.36E-05	2.10E-05	0.000192397
0.285804	0.013856	0.0126608	1.30E-05	2.11E-05	0.000181539
0.31111	0.0180758	0.0148674	1.16E-05	1.94E-05	0.000160744
0.311256	0.016271	0.0149119	1.24E-05	2.00E-05	0.000173252
0.311317	0.0147094	0.0156094	1.31E-05	2.04E-05	0.000185109
0.323751	0.0188019	0.0171221	1.01E-05	1.84E-05	0.000140001
0.323901	0.0169811	0.0171739	1.04E-05	1.87E-05	0.00014226
0.324064	0.0150718	0.0169401	1.14E-05	1.90E-05	0.000159868
0.324225	0.0132321	0.0168964	1.23E-05	1.94E-05	0.000168069
0.311568	0.0125192	0.0146326	1.43E-05	2.13E-05	0.000192539
0.336579	0.017497	0.0188638	9.93E-06	1.79E-05	0.000143634
0.336722	0.0157287	0.0190053	1.06E-05	1.82E-05	0.000153734
0.336837	0.0139943	0.0192398	1.15E-05	1.87E-05	0.000164217
0.349499	0.0158768	0.0197665	9.89E-06	1.75E-05	0.000147807
0.349622	0.0141778	0.0200971	1.00E-05	1.77E-05	0.000147088

0.349798	0.0122679	0.01987	1.13E-05	1.89E-05	0.000165917
0.337068	0.0119277	0.0186475	1.20E-05	1.96E-05	0.000174233
0.362144	0.0163881	0.0214454	8.46E-06	1.76E-05	0.000124778
0.362219	0.0148292	0.0221484	9.03E-06	1.84E-05	0.000136544
0.36247	0.0127811	0.0215533	1.00E-05	1.85E-05	0.000149837
0.374869	0.0152507	0.0236421	8.64E-06	1.82E-05	0.000144999
0.375116	0.0132381	0.0231417	9.81E-06	1.96E-05	0.000157574
0.375257	0.0115044	0.0233853	1.01E-05	1.97E-05	0.000152306
0.362602	0.0110111	0.0217008	9.60E-06	1.72E-05	0.000138249
0.387481	0.0157919	0.0254033	8.42E-06	1.81E-05	0.000147555
0.387662	0.0139189	0.0252728	8.59E-06	1.90E-05	0.000148916
0.387918	0.0119057	0.0247765	8.98E-06	1.94E-05	0.00015122
0.400335	0.0142828	0.0265657	6.28E-06	1.78E-05	0.000130368
0.400419	0.012654	0.0270864	6.50E-06	1.80E-05	0.000134582
0.40055	0.0109563	0.0274264	6.96E-06	1.63E-05	0.000133255
0.388089	0.0101017	0.024838	8.88E-06	1.81E-05	0.000147317
0.412764	0.0151137	0.0291504	4.47E-06	1.73E-05	0.000119803
0.41291	0.0133633	0.0292954	4.73E-06	1.70E-05	0.000131431
0.413214	0.0112806	0.0286203	5.25E-06	1.68E-05	0.000130737
0.425444	0.0139289	0.0311267	3.36E-06	1.76E-05	0.000127739
0.425642	0.012056	0.0310046	3.90E-06	1.61E-05	0.00012359
0.425858	0.0101833	0.0308874	4.50E-06	1.66E-05	0.000125167
0.413266	0.00972229	0.02933	6.04E-06	1.61E-05	0.000135232
0.43781	0.0147688	0.0336846	1.62E-06	1.59E-05	0.000119936
0.438201	0.0125481	0.0326454	1.64E-06	1.47E-05	0.000113252
0.438337	0.0108322	0.0328888	2.11E-06	1.30E-05	0.000112264
0.438575	0.008924	0.0326833	2.38E-06	1.21E-05	0.000110437
0.426171	0.00811574	0.0302127	4.70E-06	1.66E-05	0.000123393
0.450731	0.0129994	0.0341807	6.12E-07	1.12E-05	9.73E-05
0.450728	0.0115998	0.0352562	5.22E-07	1.10E-05	9.75E-05
0.451061	0.00951677	0.0345927	5.61E-07	1.01E-05	9.69E-05
0.463199	0.0135876	0.0360791	1.64E-06	1.12E-05	8.40E-05
0.463395	0.0117666	0.0360495	1.79E-06	9.79E-06	8.14E-05
0.463738	0.00970036	0.0353823	1.63E-06	9.31E-06	8.35E-05
0.463565	0.00858103	0.0371924	1.66E-06	1.04E-05	8.66E-05
0.451217	0.00776508	0.0347491	3.36E-07	1.06E-05	9.82E-05
0.475838	0.0123669	0.0379311	3.30E-06	7.53E-06	6.03E-05
0.475904	0.0107733	0.0385535	3.20E-06	6.76E-06	6.02E-05
0.476161	0.00888264	0.0383492	3.00E-06	8.59E-06	6.20E-05
0.488054	0.0132934	0.0407231	5.14E-06	6.11E-06	4.77E-05
0.488319	0.0113678	0.0404237	5.28E-06	4.99E-06	4.46E-05
0.488443	0.00972301	0.040862	4.84E-06	6.65E-06	4.64E-05
0.488904	0.00748022	0.039747	3.82E-06	7.62E-06	5.16E-05
0.476494	0.00684997	0.0377806	2.35E-06	9.76E-06	6.45E-05
0.500746	0.0119054	0.0422004	6.53E-06	3.03E-06	3.02E-05
0.500812	0.0103465	0.0428124	6.31E-06	4.90E-06	3.17E-05
0.501163	0.00831524	0.0422488	5.18E-06	5.62E-06	3.61E-05
0.513236	0.0108428	0.0444864	7.78E-06	4.34E-06	2.23E-05
0.5136	0.00877514	0.0438308	6.94E-06	3.73E-06	2.47E-05
0.513853	0.00693538	0.0437217	6.56E-06	3.36E-06	2.68E-05
0.501578	0.00614	0.041319	5.01E-06	5.85E-06	3.95E-05
0.514135	0.00515327	0.0438181	6.75E-06	2.00E-06	2.53E-05

0.514077	0.00499455	0.0439758	6.52E-06	2.48E-06	2.58E-05
0.513978	0.00509773	0.0442418	6.57E-06	3.33E-06	2.67E-05
0.514003	0.00521712	0.043982	6.66E-06	2.79E-06	2.66E-05
0.51398	0.0073126	0.0447027	7.04E-06	2.59E-06	2.42E-05
0.514182	0.00870863	0.0436635	7.41E-06	3.47E-06	2.09E-05
0.514219	0.00804868	0.0438166	7.24E-06	3.76E-06	2.25E-05
0.513928	0.0105652	0.0437679	7.90E-06	3.30E-06	1.99E-05
0.513088	0.0124014	0.0441834	8.02E-06	3.25E-06	2.10E-05
0.513648	0.0123355	0.0441203	8.05E-06	2.11E-06	1.79E-05
0.511373	0.00525963	0.0440109	6.15E-06	4.21E-06	3.03E-05
0.50134	0.00576826	0.0429425	4.99E-06	6.10E-06	4.07E-05
0.511279	0.0124786	0.0439519	7.21E-06	2.79E-06	2.52E-05
0.500465	0.013052	0.0430118	6.92E-06	2.55E-06	2.66E-05
0.48969	0.00586305	0.0403224	4.46E-06	6.61E-06	4.87E-05
0.48895	0.00597365	0.0404467	3.49E-06	7.50E-06	5.62E-05
0.488054	0.0132934	0.0407231	4.95E-06	7.23E-06	4.80E-05
0.476529	0.00619029	0.0379326	2.25E-06	9.40E-06	6.62E-05
0.475614	0.013529	0.0384231	3.30E-06	8.42E-06	5.99E-05
0.467951	0.0064482	0.0364998	1.93E-06	1.08E-05	7.82E-05
0.463798	0.00696642	0.0368782	1.44E-06	1.11E-05	9.26E-05
0.465117	0.0136749	0.0363229	2.13E-06	1.10E-05	7.60E-05
0.463163	0.0137603	0.0361151	1.56E-06	1.15E-05	8.47E-05
0.451198	0.00745468	0.0350822	4.83E-07	1.11E-05	9.87E-05
0.450468	0.014405	0.0349006	5.40E-07	1.18E-05	9.78E-05
0.44583	0.00765272	0.0343075	1.24E-06	1.06E-05	0.000102527
0.438609	0.00790335	0.0331886	2.68E-06	1.18E-05	0.000111353
0.44194	0.0142607	0.0324716	8.64E-07	1.45E-05	0.000112759
0.437793	0.0150281	0.0335832	1.59E-06	1.63E-05	0.000123007
0.426155	0.00799464	0.0303645	4.59E-06	1.71E-05	0.000123549
0.425359	0.0150708	0.0307881	3.36E-06	1.75E-05	0.000128255
0.424228	0.00769906	0.0290543	5.47E-06	1.79E-05	0.000128819
0.413613	0.00824059	0.0278947	6.24E-06	1.62E-05	0.000134334
0.418446	0.015351	0.0299155	4.22E-06	1.73E-05	0.000118997
0.412775	0.0154064	0.0287172	4.83E-06	1.73E-05	0.000115444
0.401923	0.00910645	0.027376	6.56E-06	1.52E-05	0.000132245
0.400692	0.00927408	0.0275478	7.09E-06	1.63E-05	0.000131711
0.400044	0.0160524	0.0274731	6.33E-06	1.75E-05	0.000123617
0.388138	0.00978308	0.0258307	8.29E-06	1.90E-05	0.000148124
0.388025	0.00975916	0.0257147	9.17E-06	1.86E-05	0.000152897
0.395082	0.0160774	0.0263565	7.96E-06	1.77E-05	0.000138799
0.387516	0.0161369	0.0247394	8.20E-06	1.77E-05	0.000141652
0.379547	0.00962267	0.0233163	9.62E-06	1.82E-05	0.000152603
0.375446	0.00987179	0.0230598	1.01E-05	1.92E-05	0.000149073
0.374667	0.0169847	0.0240397	7.88E-06	1.76E-05	0.000136499
0.362637	0.0105612	0.0218758	9.43E-06	1.67E-05	0.000132525
0.371547	0.0170689	0.0235648	7.92E-06	1.72E-05	0.000122744
0.36187	0.0176901	0.0229658	8.46E-06	1.64E-05	0.000124287
0.356139	0.0109499	0.0214017	9.72E-06	1.67E-05	0.000135203
0.349892	0.0110369	0.0201312	1.12E-05	1.90E-05	0.000160319
0.349245	0.0178713	0.0204933	9.09E-06	1.54E-05	0.000138459
0.337009	0.0118959	0.0194051	1.22E-05	2.04E-05	0.000176733
0.347947	0.0181346	0.0208758	9.13E-06	1.63E-05	0.000138756

0.336566	0.0182077	0.0183822	9.33E-06	1.79E-05	0.00013761
0.332892	0.0116644	0.0178255	1.25E-05	2.00E-05	0.000177787
0.324381	0.011876	0.0163495	1.32E-05	2.05E-05	0.000179664
0.324368	0.0189816	0.01766	9.60E-06	1.90E-05	0.00013569
0.311577	0.0124157	0.0147797	1.43E-05	2.19E-05	0.000190867
0.311066	0.0189607	0.0144266	1.14E-05	2.00E-05	0.000164043
0.309488	0.0127165	0.0150974	1.42E-05	2.13E-05	0.000186786
0.301187	0.0131177	0.0142343	1.36E-05	2.03E-05	0.000181847
0.298674	0.0131282	0.0138835	1.35E-05	2.10E-05	0.000187532
0.300164	0.0198378	0.0144151	1.26E-05	2.03E-05	0.000176972
0.305573	0.019395	0.0143555	1.18E-05	2.08E-05	0.000170126
0.298117	0.0199851	0.0143804	1.27E-05	2.01E-05	0.000178419
0.285872	0.0133521	0.0124268	1.31E-05	2.13E-05	0.000181472
0.285358	0.0202632	0.0123777	1.25E-05	2.02E-05	0.00017913
0.277091	0.0138361	0.0123676	1.32E-05	1.94E-05	0.000178398
0.272993	0.013731	0.0114382	1.32E-05	1.84E-05	0.000172409
0.273635	0.0205144	0.0105702	1.23E-05	2.02E-05	0.000180898
0.272527	0.0207304	0.010938	1.22E-05	1.95E-05	0.000178741
0.260124	0.0140911	0.0103478	1.29E-05	1.83E-05	0.000167136
0.259693	0.0210929	0.00921384	1.15E-05	1.80E-05	0.000162286
0.247248	0.0144675	0.00935518	1.16E-05	1.72E-05	0.00015593
0.246913	0.0218199	0.00853073	9.98E-06	1.49E-05	0.000133213
0.246769	0.0219383	0.00879838	9.62E-06	1.42E-05	0.000126311
0.239868	0.0140824	0.00713341	1.01E-05	1.55E-05	0.000138895
0.234389	0.0146156	0.00769794	9.08E-06	1.31E-05	0.000125317
0.23392	0.0223344	0.00716327	9.62E-06	1.24E-05	0.00012626
0.221512	0.014798	0.00613164	9.24E-06	1.21E-05	0.000123989
0.221054	0.0226443	0.00523695	8.78E-06	1.08E-05	0.000112165
0.215526	0.0147685	0.00513129	8.29E-06	1.11E-05	0.000107993
0.208609	0.0151018	0.00494393	7.55E-06	9.89E-06	9.43E-05
0.220196	0.022857	0.00565301	7.84E-06	1.06E-05	0.000105793
0.208172	0.0229874	0.0038288	6.88E-06	1.11E-05	0.000104459
0.218211	0.0228311	0.00514771	7.74E-06	1.16E-05	0.000106275
0.202486	0.0151044	0.00397561	7.78E-06	9.67E-06	9.66E-05
0.195715	0.0154225	0.00374799	7.43E-06	1.02E-05	9.65E-05
0.195277	0.0235539	0.00308199	6.50E-06	1.06E-05	9.81E-05
0.182788	0.0158469	0.00283043	6.59E-06	9.67E-06	8.81E-05
0.187531	0.0239614	0.00282925	6.36E-06	1.01E-05	9.08E-05
0.182358	0.0238792	0.00167483	6.15E-06	8.60E-06	8.50E-05
0.169854	0.0162707	0.00191083	5.89E-06	9.27E-06	7.95E-05
0.169428	0.0246167	0.00139272	5.72E-06	6.95E-06	7.91E-05
0.165173	0.016083	0.00064336	5.72E-06	8.27E-06	7.42E-05
0.15693	0.0166247	0.00080174	5.34E-06	5.76E-06	6.45E-05
0.156502	0.0252166	0.00073291	5.10E-06	6.12E-06	7.24E-05
0.143974	0.016632	-0.0012476	4.51E-06	3.38E-06	5.63E-05
0.154314	0.0252343	0.00039687	4.20E-06	4.78E-06	6.56E-05
0.143586	0.025491	-0.0007684	3.74E-06	4.10E-06	5.94E-05
0.131025	0.0172978	-0.0015169	4.04E-06	2.81E-06	4.83E-05
0.130636	0.0258862	-0.0019965	2.70E-06	3.58E-06	4.71E-05
0.127786	0.0174174	-0.0016305	3.67E-06	2.50E-06	4.47E-05
0.118064	0.0177727	-0.0022507	2.63E-06	2.41E-06	3.58E-05
0.121074	0.0266484	-0.0016109	2.52E-06	3.20E-06	3.79E-05

0.117717	0.0268965	-0.0015354	3.08E-06	3.38E-06	3.60E-05
0.108243	0.0178197	-0.0036555	2.33E-06	1.91E-06	2.84E-05
0.105104	0.0180737	-0.0032426	2.05E-06	1.12E-06	2.65E-05
0.104778	0.0264945	-0.0033302	2.05E-06	7.83E-07	2.39E-05
0.117236	0.0267808	-0.0019099	3.21E-06	2.88E-06	3.30E-05
0.0921406	0.018095	-0.0042406	1.59E-06	1.41E-06	2.09E-05
0.0918475	0.0263136	-0.0044639	1.65E-06	7.56E-07	1.34E-05
0.0792112	0.0184263	-0.0043973	1.48E-06	1.87E-06	1.08E-05
0.0789579	0.0266779	-0.0040972	1.63E-06	1.30E-06	8.38E-06
0.0662397	0.0183778	-0.0055888	1.67E-06	2.89E-06	6.20E-06
0.0660325	0.0265304	-0.0051437	1.10E-06	1.41E-06	4.75E-06
0.0653553	0.0183935	-0.0056563	1.84E-06	2.77E-06	5.31E-06
0.0564487	0.0203434	-0.0055721	1.59E-06	1.75E-06	4.46E-06
0.0568426	0.0189314	-0.0048631	1.90E-06	2.65E-06	4.68E-06
0.0561142	0.022514	-0.0046408	1.38E-06	1.12E-06	4.25E-06
0.0556606	0.0240335	-0.0054887	1.29E-06	5.64E-07	3.90E-06
0.0552736	0.0258604	-0.0054913	1.14E-06	8.29E-07	3.64E-06
0.0550827	0.0263602	-0.0061942	9.71E-07	1.19E-06	3.29E-06

Source File beam1b\_neg15deg\_fast\_146.3Hz  
 Name:  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 146.3 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0660169	0.0257304	-0.0055982	2.37E-05	2.30E-06	6.92E-05
0.0789819	0.0261021	-0.0042086	2.65E-05	1.90E-05	0.000125622
0.0790156	0.0240105	-0.0049404	2.71E-05	2.20E-05	0.000127681
0.0660401	0.0236369	-0.0063297	2.33E-05	3.03E-06	6.99E-05
0.0790153	0.0217801	-0.0060444	2.87E-05	1.99E-05	0.000129489
0.0661633	0.0222611	-0.0050883	2.45E-05	7.24E-06	7.24E-05
0.0791653	0.020681	-0.0040503	2.94E-05	1.88E-05	0.000127682
0.0661496	0.0200109	-0.0061834	2.50E-05	1.35E-05	7.35E-05
0.0792035	0.0186027	-0.0046751	3.03E-05	1.47E-05	0.000123065
0.0662398	0.0183953	-0.0055952	2.45E-05	2.70E-05	8.01E-05
0.0918655	0.0259455	-0.0043309	3.00E-05	2.59E-05	0.000195202
0.0919586	0.0243499	-0.0036473	3.19E-05	3.57E-05	0.000195742
0.0919997	0.0222237	-0.0044707	3.21E-05	3.57E-05	0.000199551
0.0920845	0.020749	-0.0035078	3.31E-05	2.87E-05	0.000197663
0.0921227	0.0185857	-0.0044204	3.28E-05	1.96E-05	0.000193361
0.104799	0.0262484	-0.003135	3.47E-05	2.90E-05	0.000270525
0.104866	0.0243298	-0.0033968	3.68E-05	4.05E-05	0.000271732
0.104958	0.0227358	-0.0027112	3.80E-05	4.49E-05	0.000273111
0.105003	0.0207473	-0.0031563	3.76E-05	4.25E-05	0.000272363
0.105078	0.0189297	-0.0031304	3.77E-05	3.82E-05	0.000270988
0.117716	0.0263461	-0.0025059	4.17E-05	4.02E-05	0.000339829

0.117779	0.0245655	-0.0023914	4.06E-05	5.50E-05	0.000354582
0.11786	0.0227845	-0.0022753	4.18E-05	6.02E-05	0.000358761
0.11794	0.0209513	-0.0022447	4.33E-05	5.68E-05	0.000353573
0.117995	0.0186518	-0.0035323	4.00E-05	5.27E-05	0.000348827
0.130705	0.0246294	-0.0018589	4.16E-05	6.84E-05	0.000432663
0.13077	0.022815	-0.0018361	4.40E-05	7.89E-05	0.000436325
0.130859	0.0211722	-0.001342	4.65E-05	7.62E-05	0.000432667
0.130943	0.0193396	-0.0013091	4.64E-05	7.29E-05	0.000429711
0.143603	0.0248299	-0.0009533	4.37E-05	7.65E-05	0.000487138
0.143692	0.0230166	-0.0009302	4.62E-05	8.73E-05	0.000500665
0.143781	0.0213405	-0.0005296	4.90E-05	8.94E-05	0.000498416
0.14385	0.0193364	-0.0009654	4.92E-05	8.79E-05	0.000499181
0.14394	0.0177119	-0.0004737	5.00E-05	8.62E-05	0.000498708
0.131001	0.0172301	-0.0021312	4.70E-05	7.14E-05	0.000439135
0.156599	0.0231832	-0.0001209	5.05E-05	0.000100684	0.000558892
0.156673	0.0214736	0.00018625	5.23E-05	9.91E-05	0.000558158
0.156767	0.0195394	-6.14E-05	5.33E-05	9.97E-05	0.000557793
0.156859	0.0178122	0.00014932	5.36E-05	0.000101483	0.000557107
0.169493	0.0234179	0.00087345	5.28E-05	0.000118821	0.000609049
0.169591	0.0216061	0.00089951	5.35E-05	0.000120724	0.000609609
0.169669	0.0198283	0.00102117	5.40E-05	0.000120145	0.000607676
0.169768	0.0179809	0.00095736	5.59E-05	0.000122397	0.000604966
0.182372	0.0237038	0.00195231	5.32E-05	0.000136214	0.000646975
0.182486	0.021669	0.00142214	5.29E-05	0.000139309	0.000648469
0.18258	0.0199953	0.00182621	5.39E-05	0.000139701	0.000645729
0.182668	0.018114	0.0016689	5.58E-05	0.000140024	0.00063899
0.182774	0.0162319	0.00151407	5.75E-05	0.000139161	0.000637537
0.169856	0.0164106	0.00164577	5.86E-05	0.000124462	0.000611615
0.195339	0.0222132	0.00325572	5.21E-05	0.00015118	0.000661315
0.195449	0.0203687	0.00319101	5.30E-05	0.000151553	0.000656138
0.195558	0.0185234	0.00312835	5.55E-05	0.000151948	0.000651669
0.195649	0.0166772	0.00306727	5.67E-05	0.0001518	0.000648652
0.208187	0.0225844	0.00461675	5.02E-05	0.000166831	0.000652689
0.208283	0.0207408	0.00455202	5.11E-05	0.000166751	0.000649587
0.208405	0.0188449	0.00429601	5.27E-05	0.00016624	0.000645657
0.208534	0.0168436	0.00386764	5.40E-05	0.000164568	0.000645461
0.22114	0.0211124	0.00591095	4.70E-05	0.000174997	0.000628367
0.221263	0.0191135	0.00537377	4.77E-05	0.000174176	0.000626987
0.221383	0.0172519	0.005321	4.97E-05	0.000175918	0.000626645
0.221464	0.0157204	0.00610668	5.11E-05	0.000174634	0.000627606
0.208638	0.015102	0.00409091	5.48E-05	0.000162465	0.000646749
0.233946	0.0216208	0.00764077	4.05E-05	0.000180379	0.000588148
0.234106	0.0195543	0.00691773	4.10E-05	0.000182505	0.000587299
0.234228	0.0175896	0.0065838	4.34E-05	0.00018317	0.000585112
0.234353	0.0157457	0.0065274	4.60E-05	0.000183393	0.000584933
0.246775	0.0218864	0.00871112	3.50E-05	0.00018894	0.000548573
0.246951	0.0197861	0.00789562	3.48E-05	0.000188395	0.000531947
0.247011	0.0182558	0.00867943	3.67E-05	0.000188211	0.00052557
0.24717	0.0162222	0.00816213	3.77E-05	0.000186613	0.000522503
0.259762	0.0200855	0.00905657	3.08E-05	0.000190247	0.000460135
0.259851	0.0184868	0.00965477	3.00E-05	0.000189422	0.00045436
0.260058	0.0162451	0.00857756	2.93E-05	0.000188514	0.000451339

0.260115	0.0148203	0.00964699	2.93E-05	0.000186026	0.000448851
0.247271	0.0145534	0.00857616	3.77E-05	0.000188036	0.000520358
0.272534	0.0206262	0.0108702	2.47E-05	0.000191571	0.000390595
0.272576	0.019167	0.0118416	2.27E-05	0.000192322	0.000366464
0.272767	0.0170836	0.011133	2.26E-05	0.000189142	0.000362385
0.272959	0.0149808	0.0104334	2.29E-05	0.000185927	0.000358968
0.285458	0.0190828	0.0119679	1.69E-05	0.000192596	0.000268022
0.285563	0.0174162	0.0123821	1.74E-05	0.000194599	0.000266777
0.285717	0.0155406	0.0122378	1.74E-05	0.000193369	0.00026603
0.298188	0.0196561	0.0138667	1.69E-05	0.000190132	0.00018288
0.298338	0.0177468	0.0136265	1.74E-05	0.000192304	0.000162671
0.298488	0.0159066	0.0135766	1.84E-05	0.000191149	0.000159242
0.298577	0.0142929	0.0141883	1.80E-05	0.000188015	0.000155867
0.285804	0.013856	0.0126608	1.71E-05	0.000196152	0.000260346
0.31111	0.0180758	0.0148674	2.19E-05	0.000183302	6.24E-05
0.311256	0.016271	0.0149119	2.36E-05	0.000179387	5.88E-05
0.311317	0.0147094	0.0156094	2.36E-05	0.000178156	5.49E-05
0.323751	0.0188019	0.0171221	3.37E-05	0.000176336	6.38E-05
0.323901	0.0169811	0.0171739	3.68E-05	0.000173653	8.38E-05
0.324064	0.0150718	0.0169401	3.60E-05	0.000172453	8.91E-05
0.324225	0.0132321	0.0168964	3.46E-05	0.000174724	8.86E-05
0.311568	0.0125192	0.0146326	2.34E-05	0.000176325	4.71E-05
0.336579	0.017497	0.0188638	4.65E-05	0.000164524	0.000167784
0.336722	0.0157287	0.0190053	5.00E-05	0.000165077	0.000188592
0.336837	0.0139943	0.0192398	4.94E-05	0.00016644	0.000195721
0.349499	0.0158768	0.0197665	5.91E-05	0.000153942	0.000287862
0.349622	0.0141778	0.0200971	5.86E-05	0.000155776	0.000296841
0.349798	0.0122679	0.01987	5.76E-05	0.000159877	0.000302273
0.337068	0.0119277	0.0186475	5.06E-05	0.000172439	0.000210635
0.362144	0.0163881	0.0214454	6.90E-05	0.000148445	0.000368789
0.362219	0.0148292	0.0221484	6.90E-05	0.000142303	0.0003886
0.36247	0.0127811	0.0215533	6.68E-05	0.000143511	0.00039096
0.374869	0.0152507	0.0236421	7.53E-05	0.000138031	0.00046516
0.375116	0.0132381	0.0231417	7.39E-05	0.000137394	0.000470526
0.375257	0.0115044	0.0233853	7.28E-05	0.000136955	0.000477717
0.362602	0.0110111	0.0217008	6.69E-05	0.000141654	0.000403148
0.387481	0.0157919	0.0254033	7.90E-05	0.000130311	0.000527249
0.387662	0.0139189	0.0252728	7.93E-05	0.000128141	0.000538156
0.387918	0.0119057	0.0247765	7.79E-05	0.000127026	0.000540312
0.400335	0.0142828	0.0265657	8.24E-05	0.000115146	0.000580446
0.400419	0.012654	0.0270864	8.29E-05	0.000112429	0.000585714
0.40055	0.0109563	0.0274264	8.45E-05	0.000113722	0.000588327
0.388089	0.0101017	0.024838	7.88E-05	0.000126434	0.00054303
0.412764	0.0151137	0.0291504	8.30E-05	0.000105743	0.000610732
0.41291	0.0133633	0.0292954	8.37E-05	0.000101393	0.000613897
0.413214	0.0112806	0.0286203	8.58E-05	0.00010249	0.000621063
0.425444	0.0139289	0.0311267	8.29E-05	9.80E-05	0.000623781
0.425642	0.012056	0.0310046	8.38E-05	9.53E-05	0.000625063
0.425858	0.0101833	0.0308874	8.59E-05	9.26E-05	0.000629783
0.413266	0.00972229	0.02933	8.79E-05	0.000102581	0.000621689
0.43781	0.0147688	0.0336846	7.87E-05	9.43E-05	0.000619391
0.438201	0.0125481	0.0326454	7.85E-05	8.92E-05	0.000615197

0.438337	0.0108322	0.0328888	8.04E-05	8.57E-05	0.000618849
0.438575	0.008924	0.0326833	8.22E-05	8.69E-05	0.000625994
0.426171	0.00811574	0.0302127	8.69E-05	9.01E-05	0.000639585
0.450731	0.0129994	0.0341807	7.38E-05	8.42E-05	0.000588486
0.450728	0.0115998	0.0352562	7.44E-05	8.28E-05	0.0005942
0.451061	0.00951677	0.0345927	7.59E-05	8.42E-05	0.00059836
0.463199	0.0135876	0.0360791	6.81E-05	7.78E-05	0.000559228
0.463395	0.0117666	0.0360495	6.56E-05	7.55E-05	0.000546898
0.463738	0.00970036	0.0353823	6.72E-05	7.62E-05	0.000551977
0.463565	0.00858103	0.0371924	6.89E-05	7.49E-05	0.000558865
0.451217	0.00776508	0.0347491	7.62E-05	8.36E-05	0.00059961
0.475838	0.0123669	0.0379311	5.35E-05	7.26E-05	0.00048222
0.475904	0.0107733	0.0385535	5.53E-05	7.14E-05	0.000484829
0.476161	0.00888264	0.0383492	5.87E-05	6.95E-05	0.000495321
0.488054	0.0132934	0.0407231	4.14E-05	6.88E-05	0.000427006
0.488319	0.0113678	0.0404237	4.13E-05	6.67E-05	0.000412066
0.488443	0.00972301	0.040862	4.40E-05	6.62E-05	0.000417322
0.488904	0.00748022	0.039747	5.08E-05	6.47E-05	0.000428962
0.476494	0.00684997	0.0377806	6.25E-05	6.65E-05	0.000500347
0.500746	0.0119054	0.0422004	2.91E-05	5.95E-05	0.000343746
0.500812	0.0103465	0.0428124	3.22E-05	5.84E-05	0.000332824
0.501163	0.00831524	0.0422488	3.90E-05	5.52E-05	0.000343437
0.513236	0.0108428	0.0444864	2.09E-05	5.36E-05	0.000253641
0.5136	0.00877514	0.0438308	2.73E-05	4.78E-05	0.000261474
0.513853	0.00693538	0.0437217	2.86E-05	4.75E-05	0.00026359
0.501578	0.00614	0.041319	4.15E-05	5.23E-05	0.000343294
0.514135	0.00515327	0.0438181	2.77E-05	5.06E-05	0.000248709
0.514077	0.00499455	0.0439758	2.92E-05	4.68E-05	0.000253697
0.513978	0.00509773	0.0442418	2.82E-05	4.95E-05	0.000256666
0.514003	0.00521712	0.043982	2.78E-05	5.23E-05	0.000252163
0.51398	0.0073126	0.0447027	2.57E-05	4.80E-05	0.000243798
0.514182	0.00870863	0.0436635	2.28E-05	4.52E-05	0.00024094
0.514219	0.00804868	0.0438166	2.42E-05	4.41E-05	0.000241728
0.513928	0.0105652	0.0437679	1.94E-05	5.00E-05	0.000234639
0.513088	0.0124014	0.0441834	1.89E-05	5.34E-05	0.000254002
0.513648	0.0123355	0.0441203	1.82E-05	4.91E-05	0.000232347
0.511373	0.00525963	0.0440109	3.13E-05	5.35E-05	0.000278032
0.50134	0.00576826	0.0429425	4.18E-05	5.42E-05	0.000346943
0.511279	0.0124786	0.0439519	2.30E-05	5.69E-05	0.000310472
0.500465	0.013052	0.0430118	2.45E-05	5.86E-05	0.000328804
0.48969	0.00586305	0.0403224	4.74E-05	5.67E-05	0.00039391
0.48895	0.00597365	0.0404467	5.37E-05	6.43E-05	0.00044588
0.488054	0.0132934	0.0407231	4.26E-05	7.00E-05	0.000434742
0.476529	0.00619029	0.0379326	6.35E-05	6.58E-05	0.000500887
0.475614	0.013529	0.0384231	5.39E-05	7.39E-05	0.000484241
0.467951	0.0064482	0.0364998	6.81E-05	6.83E-05	0.000535727
0.463798	0.00696642	0.0368782	7.17E-05	7.50E-05	0.000572012
0.465117	0.0136749	0.0363229	6.46E-05	7.70E-05	0.00054079
0.463163	0.0137603	0.0361151	6.83E-05	8.04E-05	0.000560664
0.451198	0.00745468	0.0350822	7.63E-05	8.21E-05	0.000599823
0.450468	0.014405	0.0349006	7.36E-05	8.68E-05	0.00058734
0.44583	0.00765272	0.0343075	7.88E-05	8.51E-05	0.000611505

0.438609	0.00790335	0.0331886	8.29E-05	8.70E-05	0.000627304
0.44194	0.0142607	0.0324716	7.70E-05	9.24E-05	0.000613716
0.437793	0.0150281	0.0335832	7.89E-05	9.61E-05	0.000622747
0.426155	0.00799464	0.0303645	8.67E-05	9.05E-05	0.000642108
0.425359	0.0150708	0.0307881	8.27E-05	0.000100479	0.000624762
0.424228	0.00769906	0.0290543	8.79E-05	9.37E-05	0.000641828
0.413613	0.00824059	0.0278947	8.84E-05	0.000102353	0.000624599
0.418446	0.015351	0.0299155	8.34E-05	0.000105012	0.000619621
0.412775	0.0154064	0.0287172	8.30E-05	0.000110745	0.000607107
0.401923	0.00910645	0.027376	8.83E-05	0.000107908	0.000609539
0.400692	0.00927408	0.0275478	8.71E-05	0.000116431	0.00058841
0.400044	0.0160524	0.0274731	8.25E-05	0.000118386	0.000577294
0.388138	0.00978308	0.0258307	8.45E-05	0.000126695	0.000562072
0.388025	0.00975916	0.0257147	7.96E-05	0.000130024	0.000536601
0.395082	0.0160774	0.0263565	8.01E-05	0.000125302	0.000546634
0.387516	0.0161369	0.0247394	7.77E-05	0.00013058	0.00052264
0.379547	0.00962267	0.0233163	7.59E-05	0.000132315	0.0005134
0.375446	0.00987179	0.0230598	7.20E-05	0.000138509	0.000470323
0.374667	0.0169847	0.0240397	7.51E-05	0.000139535	0.000462345
0.362637	0.0105612	0.0218758	6.72E-05	0.000142965	0.000405524
0.371547	0.0170689	0.0235648	7.20E-05	0.000146707	0.000400993
0.36187	0.0176901	0.0229658	6.63E-05	0.000149834	0.000362821
0.356139	0.0109499	0.0214017	6.37E-05	0.000150067	0.000360263
0.349892	0.0110369	0.0201312	5.74E-05	0.000164453	0.000292848
0.349245	0.0178713	0.0204933	5.69E-05	0.00015485	0.000280869
0.337009	0.0118959	0.0194051	4.99E-05	0.000172347	0.000213378
0.347947	0.0181346	0.0208758	4.95E-05	0.000160549	0.000202562
0.336566	0.0182077	0.0183822	4.47E-05	0.000166341	0.000160893
0.332892	0.0116644	0.0178255	4.30E-05	0.000175321	0.000161958
0.324381	0.011876	0.0163495	3.17E-05	0.000175111	8.41E-05
0.324368	0.0189816	0.01766	4.05E-05	0.000173625	0.00010353
0.311577	0.0124157	0.0147797	2.36E-05	0.000176217	4.55E-05
0.311066	0.0189607	0.0144266	1.87E-05	0.000185617	7.47E-05
0.309488	0.0127165	0.0150974	2.10E-05	0.000179316	7.21E-05
0.301187	0.0131177	0.0142343	1.94E-05	0.000184563	0.000120823
0.298674	0.0131282	0.0138835	1.79E-05	0.000189793	0.000174623
0.300164	0.0198378	0.0144151	1.83E-05	0.000186884	0.000156135
0.305573	0.019395	0.0143555	1.85E-05	0.000187589	0.000111896
0.298117	0.0199851	0.0143804	1.66E-05	0.000188366	0.000189407
0.285872	0.0133521	0.0124268	1.75E-05	0.000197613	0.000259488
0.285358	0.0202632	0.0123777	1.67E-05	0.000193202	0.000271387
0.277091	0.0138361	0.0123676	1.92E-05	0.000195515	0.000312734
0.272993	0.013731	0.0114382	2.41E-05	0.000185757	0.0003719
0.273635	0.0205144	0.0105702	2.21E-05	0.000192595	0.000356943
0.272527	0.0207304	0.010938	2.51E-05	0.000188165	0.000394983
0.260124	0.0140911	0.0103478	2.95E-05	0.00018676	0.000448592
0.259693	0.0210929	0.00921384	3.02E-05	0.000186649	0.000461785
0.247248	0.0144675	0.00935518	3.76E-05	0.000189694	0.000520199
0.246913	0.0218199	0.00853073	3.34E-05	0.000189064	0.000526501
0.246769	0.0219383	0.00879838	3.52E-05	0.000186703	0.000552267
0.239868	0.0140824	0.00713341	4.33E-05	0.000188029	0.000557461
0.234389	0.0146156	0.00769794	4.82E-05	0.000181348	0.000595415

0.23392	0.0223344	0.00716327	4.07E-05	0.00017928	0.000590093
0.221512	0.014798	0.00613164	5.17E-05	0.000173923	0.00062604
0.221054	0.0226443	0.00523695	4.62E-05	0.000175889	0.000628334
0.215526	0.0147685	0.00513129	5.39E-05	0.000167407	0.000638867
0.208609	0.0151018	0.00494393	5.54E-05	0.000159566	0.000647117
0.220196	0.022857	0.00565301	4.77E-05	0.00017588	0.000640238
0.208172	0.0229874	0.0038288	5.06E-05	0.00016615	0.000651787
0.218211	0.0228311	0.00514771	4.76E-05	0.000175538	0.000638276
0.202486	0.0151044	0.00397561	5.66E-05	0.00015263	0.000651777
0.195715	0.0154225	0.00374799	5.75E-05	0.000144348	0.000650962
0.195277	0.0235539	0.00308199	5.24E-05	0.000149656	0.000659975
0.182788	0.0158469	0.00283043	5.78E-05	0.000136037	0.00064062
0.187531	0.0239614	0.00282925	5.33E-05	0.000139845	0.000656432
0.182358	0.0238792	0.00167483	5.29E-05	0.000133881	0.00064616
0.169854	0.0162707	0.00191083	5.92E-05	0.000122101	0.000617734
0.169428	0.0246167	0.00139272	5.18E-05	0.000118499	0.000608065
0.165173	0.016083	0.00064336	5.88E-05	0.000112019	0.000595038
0.15693	0.0166247	0.00080174	5.49E-05	9.73E-05	0.00055381
0.156502	0.0252166	0.00073291	4.94E-05	9.81E-05	0.000557954
0.143974	0.016632	-0.0012476	4.94E-05	8.32E-05	0.00049618
0.154314	0.0252343	0.00039687	4.56E-05	8.00E-05	0.00051059
0.143586	0.025491	-0.0007684	4.42E-05	7.18E-05	0.000484705
0.131025	0.0172978	-0.0015169	4.72E-05	6.86E-05	0.000438724
0.130636	0.0258862	-0.0019965	4.24E-05	6.41E-05	0.000430506
0.127786	0.0174174	-0.0016305	4.42E-05	6.19E-05	0.000404639
0.118064	0.0177727	-0.0022507	3.82E-05	5.19E-05	0.000346681
0.121074	0.0266484	-0.0016109	4.40E-05	4.90E-05	0.00036918
0.117717	0.0268965	-0.0015354	4.62E-05	3.88E-05	0.000350434
0.108243	0.0178197	-0.0036555	3.62E-05	4.70E-05	0.000298824
0.105104	0.0180737	-0.0032426	3.65E-05	3.58E-05	0.000257843
0.104778	0.0264945	-0.0033302	3.39E-05	2.67E-05	0.000267537
0.117236	0.0267808	-0.0019099	4.35E-05	3.19E-05	0.000326719
0.0921406	0.018095	-0.0042406	3.44E-05	1.02E-05	0.00018943
0.0918475	0.0263136	-0.0044639	2.86E-05	2.32E-05	0.000191295
0.0792112	0.0184263	-0.0043973	3.02E-05	1.10E-05	0.000121794
0.0789579	0.0266779	-0.0040972	2.61E-05	1.70E-05	0.00012457
0.0662397	0.0183778	-0.0055888	2.55E-05	2.44E-05	8.20E-05
0.0660325	0.0265304	-0.0051437	2.32E-05	4.99E-06	7.02E-05
0.0653553	0.0183935	-0.0056563	2.41E-05	2.22E-05	6.60E-05
0.0564487	0.0203434	-0.0055721	2.48E-05	5.21E-06	4.64E-05
0.0568426	0.0189314	-0.0048631	2.50E-05	5.65E-06	4.77E-05
0.0561142	0.022514	-0.0046408	2.41E-05	2.76E-06	4.50E-05
0.0556606	0.0240335	-0.0054887	2.26E-05	3.00E-06	4.46E-05
0.0552736	0.0258604	-0.0054913	2.22E-05	2.38E-06	4.40E-05
0.0550827	0.0263602	-0.0061942	2.16E-05	4.22E-06	4.48E-05

#### Source File

Name: beam1lb\_neg30deg\_fast\_183.1Hz

Signal: FFT - Vib 3D Velocity - Magnitude

dB-Reference: 0 dB = 1 m/s

Band No.: 1  
Frequency: 183.1 Hz

Interpolated: Yes  
Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0536478	0.0221851	-0.0040288	6.84E-05	1.85E-05	0.000138617
0.068468	0.0225115	-0.0034252	9.92E-05	2.88E-05	0.000325645
0.0685666	0.0207059	-0.003944	9.87E-05	2.74E-05	0.000327542
0.0537013	0.0206187	-0.0039993	6.78E-05	1.80E-05	0.000139912
0.068622	0.019259	-0.0036368	9.61E-05	2.80E-05	0.000323387
0.053759	0.0191323	-0.0037844	6.89E-05	1.68E-05	0.000145738
0.068716	0.017586	-0.0038827	8.92E-05	2.75E-05	0.000313834
0.0538491	0.0174195	-0.0041228	6.55E-05	1.67E-05	0.000138424
0.0834405	0.0222253	-0.0042335	0.00011056	2.92E-05	0.000616577
0.0835065	0.0206575	-0.0042021	0.000112532	2.35E-05	0.000618555
0.0835878	0.0190755	-0.0041618	0.000110679	2.01E-05	0.000618858
0.0836235	0.0177617	-0.0035841	0.000110058	2.25E-05	0.000612963
0.0983621	0.0224255	-0.0038852	0.000121334	1.61E-05	0.000985404
0.0984838	0.0206988	-0.0042172	0.000126312	7.31E-06	0.000988639
0.098573	0.0190499	-0.0043656	0.000126997	5.25E-06	0.000988579
0.0985574	0.0179748	-0.0032395	0.000128547	1.03E-05	0.000982519
0.113346	0.0225852	-0.0036715	0.000137172	1.56E-05	0.00140106
0.113421	0.0210966	-0.0034544	0.000137142	2.61E-05	0.00140922
0.11347	0.0196325	-0.0031394	0.000138123	2.50E-05	0.0014055
0.113631	0.0177986	-0.003746	0.000147231	1.73E-05	0.00139464
0.128353	0.022809	-0.0033123	0.000138266	4.02E-05	0.00173966
0.128506	0.0210274	-0.003726	0.000133991	4.82E-05	0.00180733
0.128542	0.0196964	-0.0031413	0.000136352	5.15E-05	0.00181155
0.128648	0.0180461	-0.0032854	0.000144357	4.50E-05	0.00180438
0.143488	0.0215133	-0.0027633	0.000132559	7.34E-05	0.00215046
0.143699	0.0195714	-0.0035371	0.000131793	8.01E-05	0.00214946
0.143642	0.0185723	-0.0022285	0.00013897	7.91E-05	0.00214564
0.158581	0.0217321	-0.0023762	0.000133855	9.87E-05	0.00241203
0.158756	0.019963	-0.0027901	0.000130807	0.000105458	0.00242021
0.15878	0.0186698	-0.0021114	0.00013109	0.000107569	0.00241817
0.158917	0.0170186	-0.002249	0.000134963	0.000105824	0.0024155
0.143861	0.0165474	-0.0031816	0.000139082	7.67E-05	0.00217461
0.173706	0.0207616	-0.0010723	0.000117487	0.000124094	0.00256574
0.173907	0.0189664	-0.0015794	0.000116496	0.000126502	0.00256583
0.174024	0.0173389	-0.0016199	0.000115889	0.000128717	0.00255995
0.188872	0.0210185	-0.000674	9.54E-05	0.000137105	0.00261508
0.189027	0.0193526	-0.0008034	9.08E-05	0.000140564	0.0025924
0.18918	0.0176592	-0.0010297	8.93E-05	0.000142539	0.00258052
0.18926	0.0161907	-0.0007025	8.89E-05	0.000138411	0.00257529

0.174128	0.0158059	-0.0014817	0.000111642	0.00012579	0.00258008
0.204166	0.019737	-6.98E-05	5.94E-05	0.000145681	0.00251521
0.204218	0.0183472	0.00043772	5.57E-05	0.000148793	0.00250565
0.204364	0.0167192	0.00040442	5.47E-05	0.000147842	0.00250397
0.219193	0.0204889	0.00154221	2.21E-05	0.000143912	0.00235708
0.21938	0.0187818	0.0013284	1.11E-05	0.000143833	0.00230639
0.219466	0.0173262	0.0016516	7.17E-06	0.000143187	0.00228926
0.219704	0.0154982	0.00117112	8.85E-06	0.000148295	0.00227993
0.204463	0.0151835	0.00054517	4.97E-05	0.000153418	0.00249979
0.234564	0.0192558	0.00227057	4.11E-05	0.000132322	0.00195055
0.234564	0.0179829	0.00305185	4.46E-05	0.000126178	0.00192496
0.234867	0.0160502	0.00229765	4.74E-05	0.000131253	0.00191578
0.249582	0.0201498	0.00417051	9.29E-05	0.00011676	0.00158499
0.249773	0.0184399	0.00396073	0.000106915	0.000103533	0.00147159
0.250035	0.0166258	0.00347968	0.000112363	9.79E-05	0.00144987
0.250013	0.0153915	0.00435432	0.000115912	0.000102839	0.00144477
0.234994	0.0144579	0.00235971	5.08E-05	0.000138857	0.00190586
0.265049	0.0188436	0.00474963	0.000157865	6.17E-05	0.000932251
0.265164	0.0173307	0.00499557	0.000165965	5.56E-05	0.000908553
0.265537	0.0153168	0.00407175	0.000171086	5.58E-05	0.000889282
0.265572	0.0139613	0.00467982	0.00017361	6.13E-05	0.000890054
0.250123	0.0138941	0.0045953	0.000132166	9.83E-05	0.0013675
0.279986	0.0199271	0.0071246	0.000215774	2.15E-05	0.000444646
0.280356	0.0179551	0.00629186	0.000223309	9.80E-06	0.000316826
0.280559	0.0162828	0.00618352	0.000232071	6.02E-06	0.00029581
0.280656	0.0148222	0.00651762	0.000236102	9.69E-06	0.000284807
0.295337	0.0189972	0.00853738	0.000268811	2.93E-05	0.00019431
0.295767	0.0169305	0.0075391	0.000288042	3.95E-05	0.000306026
0.295692	0.015785	0.00858821	0.000296896	4.46E-05	0.000330863
0.296018	0.013872	0.00794809	0.000295091	3.69E-05	0.000341881
0.280716	0.0133999	0.00693971	0.000254652	1.60E-05	0.00020682
0.310695	0.018073	0.0100167	0.00033997	7.34E-05	0.000793697
0.310959	0.0163348	0.00973083	0.000348575	8.60E-05	0.00091473
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0.326291	0.0168306	0.0107546	0.000398277	0.00013256	0.00144718
0.326493	0.0152084	0.0107404	0.000405958	0.00013658	0.00147219
0.32643	0.0140059	0.0117099	0.000401735	0.000137699	0.0014878
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0.341271	0.0179404	0.013166	0.000433883	0.000168609	0.00183654
0.34159	0.0161197	0.0127084	0.000446975	0.000178927	0.00192173
0.341723	0.0146144	0.0129639	0.000435922	0.000181665	0.00193618
0.342206	0.0125559	0.0119837	0.000430556	0.000180065	0.00194833
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0.35713	0.0137639	0.0146279	0.000469271	0.000221568	0.00230641
0.372149	0.0161627	0.0162656	0.000485068	0.000247063	0.00253504

0.3721	0.0149294	0.0171423	0.000485342	0.000250316	0.00256233
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0.38818	0.0105601	0.0182219	0.000485304	0.000271328	0.00271354
0.418106	0.014224	0.0226263	0.000418166	0.000265828	0.00247338
0.418076	0.0129605	0.0234146	0.000414674	0.000270745	0.00248159
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0.479007	0.0136583	0.0319696	0.000175713	0.000143973	0.00100176
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0.494224	0.0132156	0.0345379	0.000100411	9.78E-05	0.000556581
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0.289498	0.0130021	0.0076402	0.000277178	9.87E-06	5.50E-05
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0.249596	0.020485	0.00391509	8.94E-05	0.000119334	0.00161299
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0.1132	0.0240899	-0.0030257	0.00013849	7.28E-06	0.00132801
0.115472	0.0241682	-0.0029287	0.000149809	1.63E-05	0.00152905
0.11121	0.0171417	-0.0036009	0.000137545	9.70E-06	0.00125401
0.0987267	0.016738	-0.0045445	0.000125101	1.21E-05	0.000972338
0.0983132	0.0235137	-0.0039243	0.00012091	1.68E-05	0.000985957
0.0837442	0.0166468	-0.004728	0.000102766	2.56E-05	0.000613876
0.0833523	0.0233569	-0.0038573	0.00010691	2.64E-05	0.000618082
0.0687557	0.0169145	-0.0041327	8.48E-05	2.62E-05	0.000313869
0.068403	0.0234487	-0.0031812	9.84E-05	2.62E-05	0.000328351
0.0538664	0.0169254	-0.0041239	5.99E-05	1.52E-05	0.000137829
0.0535797	0.0231022	-0.0035576	6.82E-05	2.14E-05	0.000144207
0.0522493	0.017499	-0.0039238	5.54E-05	1.09E-05	9.51E-05
0.0522708	0.0171	-0.0037477	4.73E-05	8.09E-06	8.45E-05
0.052139	0.0193714	-0.0032192	6.23E-05	1.38E-05	0.000103928
0.0521084	0.0206578	-0.0038915	6.15E-05	1.37E-05	9.92E-05
0.0520198	0.0222628	-0.0038306	5.85E-05	1.58E-05	9.48E-05
0.0519574	0.0232455	-0.0031693	5.59E-05	1.79E-05	9.58E-05

Scaled Y: beam3lb\_0deg\_fast\_55.63Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 55.63 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0623665	0.0177938	-0.00748538	5.18E-06	1.14E-05	1.05E-05
0.0622184	0.0161708	-0.00737526	2.66E-06	5.11E-06	8.69E-06
0.0619647	0.0145356	-0.00825757	1.44E-06	2.12E-06	9.23E-06
0.0617985	0.0129117	-0.00834246	1.41E-06	5.17E-06	9.73E-06
0.0616469	0.0112888	-0.00812533	1.58E-06	2.30E-06	1.14E-05
0.061425	0.00964912	-0.00880342	1.73E-06	9.26E-06	1.28E-05
0.0785495	0.0161476	-0.00857111	2.49E-06	5.75E-06	1.98E-05
0.0783367	0.0145118	-0.0092583	1.11E-06	8.01E-07	1.92E-05
0.0781974	0.0128758	-0.00884575	1.42E-06	1.18E-06	1.97E-05
0.078017	0.0112523	-0.00913006	1.64E-06	4.69E-06	2.14E-05
0.0779177	0.00961912	-0.00821492	2.04E-06	4.18E-06	2.25E-05
0.0777456	0.00799609	-0.00839541	1.55E-06	1.44E-06	2.28E-05
0.0947353	0.0144877	-0.0105469	1.21E-06	1.18E-06	3.39E-05

0.094637	0.0128521	-0.00943767	9.33E-07	1.95E-06	3.29E-05
0.0944797	0.0112163	-0.00942486	5.96E-07	3.42E-06	3.47E-05
0.0942696	0.00957924	-0.0100078	4.84E-07	2.35E-06	3.66E-05
0.0941655	0.00794808	-0.00899207	7.67E-07	1.40E-06	3.81E-05
0.0939431	0.00632055	-0.00997088	3.57E-07	1.44E-06	3.80E-05
0.111048	0.0128132	-0.011314	1.52E-06	3.41E-06	5.42E-05
0.110904	0.0111781	-0.0108032	1.83E-06	1.85E-06	5.40E-05
0.110752	0.00954207	-0.0106905	1.59E-06	4.70E-06	5.32E-05
0.110577	0.00790613	-0.0107746	6.92E-07	1.61E-06	5.43E-05
0.110383	0.00626563	-0.0114565	1.32E-07	1.91E-06	5.43E-05
0.110266	0.00463642	-0.010438	6.56E-07	1.60E-06	5.46E-05
0.127453	0.0111408	-0.0110691	7.16E-07	3.13E-06	8.08E-05
0.127334	0.00951038	-0.00975868	6.43E-07	9.78E-07	8.00E-05
0.127138	0.00787156	-0.0107449	1.57E-06	3.94E-06	7.84E-05
0.126916	0.00622914	-0.0120282	1.35E-06	3.06E-06	7.78E-05
0.126754	0.00459436	-0.0118106	1.14E-06	3.67E-06	7.80E-05
0.126605	0.00295938	-0.0115915	1.26E-06	1.95E-06	7.82E-05
0.143843	0.0094669	-0.0120076	6.10E-07	1.72E-06	0.00010904
0.14367	0.00783089	-0.0120963	7.41E-07	3.76E-06	0.000108996
0.143521	0.00619634	-0.0117833	1.25E-06	3.17E-06	0.000107846
0.143329	0.00454154	-0.0125673	1.24E-06	5.08E-06	0.000107684
0.143186	0.00291392	-0.01155	1.35E-06	4.65E-06	0.000107765
0.142984	0.0012614	-0.0132299	1.90E-06	3.49E-06	0.000107582
0.160297	0.0077957	-0.0121299	1.92E-06	4.49E-06	0.000136131
0.160126	0.00615979	-0.0122186	1.82E-06	2.49E-06	0.00013631
0.159961	0.00451368	-0.0118052	2.06E-06	1.03E-06	0.000136093
0.159803	0.0028772	-0.0118899	1.89E-06	2.08E-06	0.000136225
0.159618	0.00121759	-0.012972	2.38E-06	2.79E-06	0.000136095
0.159455	-0.00041316	-0.0124523	2.81E-06	3.02E-06	0.000135442
0.176606	0.00447513	-0.0124225	3.63E-06	4.38E-06	0.000157822
0.176436	0.00282417	-0.0126091	4.27E-06	1.60E-06	0.000162485
0.176279	0.00118165	-0.0131936	4.12E-06	1.29E-06	0.000163338
0.176108	-0.000469686	-0.0132759	1.42E-05	2.12E-06	0.000163188
0.175939	-0.00209878	-0.0126563	4.29E-06	1.62E-06	0.000162305
0.193135	0.00277903	-0.0139068	5.71E-06	4.48E-06	0.000189472
0.192972	0.00112171	-0.0144933	5.86E-06	3.60E-06	0.000189416
0.192791	-0.000506442	-0.0135781	1.61E-05	2.78E-05	0.000188632
0.192641	-0.0021656	-0.0141602	2.70E-05	7.09E-07	0.000190645
0.192476	-0.00382276	-0.0145403	1.75E-05	4.20E-07	0.00019336
0.209704	0.00108663	-0.0146704	7.82E-06	3.81E-06	0.000216052
0.209549	-0.000567951	-0.0147566	8.99E-06	2.89E-05	0.000215401
0.209379	-0.00222077	-0.0147411	9.99E-06	5.26E-05	0.000215797
0.209222	-0.00386684	-0.0152234	1.73E-05	2.58E-05	0.000220695
0.209033	-0.00550959	-0.014504	8.07E-06	2.19E-06	0.000230432
0.226318	-0.000618912	-0.0151115	5.81E-05	0.000107673	0.000230841
0.226156	-0.00226176	-0.0152982	8.51E-06	3.36E-06	0.000231977
0.225982	-0.00391461	-0.0151828	9.67E-06	2.41E-05	0.000233938
0.225828	-0.00557094	-0.0152646	1.18E-05	7.28E-06	0.000239745
0.225654	-0.00722347	-0.0151449	9.15E-06	4.61E-06	0.000244743
0.225495	-0.00886913	-0.015423	9.90E-06	2.86E-06	0.000246504
0.242951	-0.00230944	-0.0153304	0.000109205	0.000323432	0.000253636
0.242807	-0.00397177	-0.0158164	5.04E-05	9.16E-05	0.000253274

0.24262	-0.0056231	-0.0155014	1.26E-05	9.15E-06	0.000257958
0.242552	-0.00729382	-0.0171808	1.63E-05	2.23E-05	0.000257359
0.242314	-0.00892823	-0.015863	1.39E-05	9.00E-06	0.000257619
0.242221	-0.0105992	-0.0173391	6.34E-05	0.000212862	0.000260152
0.259676	-0.00403121	-0.0167241	6.08E-05	0.000321351	0.000271248
0.259552	-0.00570037	-0.0174093	1.13E-05	8.85E-05	0.000272473
0.259414	-0.00735421	-0.0178929	1.19E-05	4.24E-06	0.000276764
0.259204	-0.00900047	-0.0170763	1.53E-05	1.00E-05	0.000280008
0.25902	-0.0106554	-0.016857	5.46E-05	0.000171484	0.000281256
0.258915	-0.0123069	-0.0178333	0.00012007	0.00042002	0.000283801
0.276402	-0.0057297	-0.017094	1.25E-05	0.000105588	0.00028103
0.276255	-0.00739517	-0.0173798	1.24E-05	4.36E-06	0.000280095
0.276147	-0.00907035	-0.0181618	1.30E-05	5.59E-06	0.000284601
0.275928	-0.0107206	-0.0175462	1.32E-05	7.03E-06	0.000285607
0.275811	-0.012365	-0.0180243	1.37E-05	6.91E-06	0.000286705
0.275671	-0.0140354	-0.0184012	6.55E-05	0.00020542	0.000289168
0.293059	-0.00912152	-0.0182224	1.35E-05	4.26E-06	0.00028602
0.29288	-0.0107696	-0.0181076	1.40E-05	5.69E-06	0.000288395
0.292703	-0.0124298	-0.0178897	1.40E-05	6.09E-06	0.000288489
0.292642	-0.0141055	-0.019065	1.44E-05	5.04E-06	0.000288028
0.292471	-0.0157565	-0.0190434	1.48E-05	6.44E-06	0.000291301
0.309933	-0.0108425	-0.019237	1.46E-05	7.36E-06	0.000290672
0.309761	-0.0125098	-0.0192217	1.46E-05	7.28E-06	0.00029085
0.309614	-0.0141661	-0.0193024	1.47E-05	7.46E-06	0.000289104
0.309464	-0.0158241	-0.0194818	1.52E-05	2.85E-06	0.000290033
0.309281	-0.0174892	-0.0193606	1.56E-05	4.41E-06	0.000292791
0.309123	-0.0191434	-0.0193355	1.58E-05	8.68E-06	0.000294197
0.326886	-0.0125885	-0.0205222	1.58E-05	1.06E-05	0.000291869
0.32655	-0.0142277	-0.019016	1.59E-05	1.12E-05	0.000291399
0.326462	-0.0158857	-0.0196939	1.57E-05	9.85E-06	0.000288036
0.326244	-0.0175323	-0.0192775	1.56E-05	6.30E-06	0.000287045
0.326179	-0.0192232	-0.0200483	1.59E-05	6.00E-06	0.000290058
0.325971	-0.0208719	-0.0197268	1.64E-05	1.02E-05	0.000289638
0.343489	-0.0159456	-0.0198783	1.64E-05	1.14E-05	0.000283901
0.343527	-0.0176441	-0.0214469	1.65E-05	1.19E-05	0.000278589
0.343197	-0.0192866	-0.020137	1.63E-05	1.18E-05	0.000279552
0.343208	-0.020984	-0.0215031	1.64E-05	1.22E-05	0.000283254
0.342957	-0.0226284	-0.0208848	1.68E-05	1.30E-05	0.000284514
0.34281	-0.0243065	-0.0209561	1.69E-05	1.24E-05	0.00028275
0.360363	-0.0176638	-0.0199202	1.71E-05	1.20E-05	0.000271451
0.360478	-0.0193917	-0.0218814	1.73E-05	1.26E-05	0.000269995
0.360132	-0.0210221	-0.020574	1.74E-05	1.45E-05	0.000269785
0.360031	-0.0226995	-0.0210471	1.71E-05	1.45E-05	0.000271596
0.36003	-0.0243988	-0.0222106	1.66E-05	1.48E-05	0.000270033
0.35974	-0.0260508	-0.0212923	1.66E-05	1.45E-05	0.00026757
0.377242	-0.0210928	-0.0209073	1.75E-05	1.43E-05	0.00026178
0.37727	-0.0227944	-0.0220706	1.77E-05	1.48E-05	0.000261152
0.37691	-0.0244273	-0.0208644	1.73E-05	1.50E-05	0.00026062
0.376939	-0.0261343	-0.0221243	1.68E-05	1.36E-05	0.000257646
0.376841	-0.0278162	-0.0224913	1.64E-05	1.35E-05	0.000253209
0.394363	-0.0228418	-0.0219813	1.71E-05	1.78E-05	0.000234772
0.394224	-0.0245196	-0.022159	1.74E-05	1.86E-05	0.000236178

0.394114	-0.0262016	-0.0224308	1.73E-05	1.72E-05	0.000238863
0.393957	-0.0278773	-0.0225057	1.72E-05	1.55E-05	0.000240856
0.393847	-0.0295605	-0.0227733	1.71E-05	1.41E-05	0.000240607
0.393773	-0.031254	-0.0233365	1.67E-05	1.41E-05	0.000240019
0.411384	-0.0245886	-0.0222402	1.64E-05	1.91E-05	0.000202915
0.411356	-0.0262894	-0.0230071	1.64E-05	1.86E-05	0.000202879
0.41125	-0.0279628	-0.0232783	1.64E-05	1.87E-05	0.000204768
0.411294	-0.0296802	-0.0244341	1.65E-05	1.75E-05	0.000206808
0.41095	-0.031325	-0.0234232	1.67E-05	1.72E-05	0.000206679
0.41081	-0.0330097	-0.023592	1.61E-05	1.77E-05	0.000203251
0.428429	-0.0280345	-0.0232364	1.59E-05	1.92E-05	0.000182415
0.428372	-0.0297219	-0.0238035	1.59E-05	1.98E-05	0.000179643
0.428099	-0.0313868	-0.0232899	1.60E-05	1.95E-05	0.000178876
0.428171	-0.033098	-0.0244382	1.61E-05	1.92E-05	0.000177551
0.427878	-0.0347586	-0.0238224	1.56E-05	1.94E-05	0.000178499
0.427987	-0.0364812	-0.0251625	1.55E-05	2.00E-05	0.000179556
0.445676	-0.0298118	-0.0242272	1.57E-05	2.12E-05	0.000151456
0.445439	-0.0314745	-0.0239129	1.58E-05	2.20E-05	0.000151737
0.445132	-0.0331228	-0.0232026	1.61E-05	2.11E-05	0.000153354
0.445121	-0.0348383	-0.0239592	1.62E-05	2.02E-05	0.000154645
0.444875	-0.0364962	-0.023538	1.58E-05	2.05E-05	0.000157112
0.444926	-0.0382119	-0.0245839	1.53E-05	2.18E-05	0.000151093
0.462652	-0.0332384	-0.0244844	1.55E-05	2.16E-05	0.000128382
0.462358	-0.0348949	-0.0238734	1.52E-05	2.09E-05	0.000124706
0.462269	-0.0365875	-0.0242382	1.54E-05	2.09E-05	0.000125068
0.462259	-0.0382936	-0.0248903	1.53E-05	2.10E-05	0.0001253
0.462016	-0.0399598	-0.0245685	1.46E-05	2.22E-05	0.000125508
0.461926	-0.0416546	-0.024927	1.43E-05	2.31E-05	0.000125556
0.479765	-0.0349887	-0.0244466	1.38E-05	1.98E-05	9.42E-05
0.479774	-0.0367023	-0.0252011	1.36E-05	1.98E-05	9.41E-05
0.479634	-0.0383909	-0.0252699	1.37E-05	1.99E-05	9.45E-05
0.479317	-0.0400361	-0.0246601	1.37E-05	2.04E-05	9.56E-05
0.479431	-0.0417704	-0.0257937	1.27E-05	2.09E-05	9.65E-05
0.479321	-0.043468	-0.0260539	1.23E-05	2.25E-05	9.17E-05
0.497173	-0.0367912	-0.0255552	1.24E-05	1.92E-05	6.55E-05
0.497034	-0.0384712	-0.0256261	1.21E-05	1.93E-05	6.56E-05
0.496856	-0.0401609	-0.0256011	1.24E-05	1.98E-05	6.64E-05
0.496814	-0.041858	-0.0260553	1.21E-05	1.93E-05	6.70E-05
0.496757	-0.0435698	-0.0265105	1.10E-05	1.93E-05	6.38E-05
0.496469	-0.0452246	-0.0259918	1.05E-05	2.00E-05	5.54E-05
0.514223	-0.0402327	-0.0256422	1.20E-05	1.79E-05	4.45E-05
0.514199	-0.0419389	-0.0261969	1.17E-05	1.94E-05	4.10E-05
0.513726	-0.0435693	-0.0250081	1.13E-05	1.98E-05	4.17E-05
0.514008	-0.0453294	-0.0267173	1.01E-05	1.90E-05	4.22E-05
0.513764	-0.0470128	-0.0263928	9.44E-06	2.03E-05	3.85E-05
0.513648	-0.0487045	-0.0265495	9.28E-06	1.90E-05	3.78E-05
0.53129	-0.0419669	-0.0251611	1.17E-05	1.55E-05	2.33E-05
0.531259	-0.0436752	-0.0256139	1.13E-05	1.77E-05	2.29E-05
0.531335	-0.0454024	-0.0264495	1.07E-05	1.85E-05	2.37E-05
0.531182	-0.0470946	-0.0265171	9.43E-06	1.85E-05	2.45E-05
0.531229	-0.0488204	-0.0272523	8.51E-06	1.83E-05	2.50E-05
0.531021	-0.0505042	-0.0271234	8.15E-06	1.72E-05	2.62E-05

Scaled Y beam3lb\_0deg\_fast\_154.4Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 154.4 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0623665	0.0177938	-0.00748538	1.63E-05	2.36E-05	0.000394349
0.0622184	0.0161708	-0.00737526	1.52E-05	2.50E-05	0.000373551
0.0619647	0.0145356	-0.00825757	1.31E-05	1.43E-05	0.000381102
0.0617985	0.0129117	-0.00834246	1.42E-05	1.52E-05	0.000383466
0.0616469	0.0112888	-0.00812533	1.28E-05	1.62E-05	0.000375086
0.061425	0.00964912	-0.00880342	9.55E-06	2.51E-05	0.000393316
0.0785495	0.0161476	-0.00857111	7.99E-06	2.23E-05	0.000791838
0.0783367	0.0145118	-0.0092583	9.70E-06	5.09E-05	0.000787644
0.0781974	0.0128758	-0.00884575	1.62E-05	5.23E-05	0.000791852
0.078017	0.0112523	-0.00913006	1.76E-05	5.09E-05	0.00079277
0.0779177	0.00961912	-0.00821492	2.34E-05	4.28E-05	0.000792102
0.0777456	0.00799609	-0.00839541	1.75E-05	2.88E-05	0.000796239
0.0947353	0.0144877	-0.0105469	2.88E-05	3.64E-05	0.00145569
0.094637	0.0128521	-0.00943767	1.63E-05	8.72E-05	0.00145177
0.0944797	0.0112163	-0.00942486	9.56E-06	0.000100364	0.00145487
0.0942696	0.00957924	-0.0100078	9.01E-06	0.000105823	0.00145565
0.0941655	0.00794808	-0.00899207	9.93E-06	8.77E-05	0.00145654
0.0939431	0.00632055	-0.00997088	1.47E-05	6.98E-05	0.0014626
0.111048	0.0128132	-0.011314	6.53E-05	4.34E-05	0.00223584
0.110904	0.0111781	-0.0108032	5.26E-05	9.60E-05	0.00223173
0.110752	0.00954207	-0.0106905	5.69E-05	9.83E-05	0.00222987
0.110577	0.00790613	-0.0107746	6.33E-05	7.81E-05	0.00223085
0.110383	0.00626563	-0.0114565	6.63E-05	6.67E-05	0.00223252
0.110266	0.00463642	-0.010438	6.93E-05	4.69E-05	0.00223452
0.127453	0.0111408	-0.0110691	9.00E-05	6.66E-05	0.00304892
0.127334	0.00951038	-0.00975868	8.65E-05	8.47E-05	0.00303372
0.127138	0.00787156	-0.0107449	0.000100337	5.25E-05	0.00304731
0.126916	0.00622914	-0.0120282	0.000112251	9.67E-06	0.0030438
0.126754	0.00459436	-0.0118106	0.000112072	8.87E-06	0.00304627
0.126605	0.00295938	-0.0115915	0.000115682	2.72E-06	0.00304544
0.143843	0.0094669	-0.0120076	0.000126796	3.34E-05	0.00377678
0.14367	0.00783089	-0.0120963	0.000127664	9.27E-06	0.00377241
0.143521	0.00619634	-0.0117833	0.000141121	9.80E-06	0.00379483
0.143329	0.00454154	-0.0125673	0.000141845	2.12E-05	0.00379977
0.143186	0.00291392	-0.01155	0.000149184	5.21E-06	0.00381881
0.142984	0.0012614	-0.0132299	0.000155437	1.30E-05	0.00381597
0.160297	0.0077957	-0.0121299	0.000148422	6.07E-05	0.00443088
0.160126	0.00615979	-0.0122186	0.000150649	4.89E-05	0.00442559
0.159961	0.00451368	-0.0118052	0.000156624	5.12E-05	0.00443564
0.159803	0.0028772	-0.0118899	0.000162563	4.75E-05	0.00442562

0.159618	0.00121759	-0.012972	0.000172295	3.79E-05	0.004444
0.159455	-0.00041316	-0.0124523	0.00018199	2.36E-05	0.00445445
0.176606	0.00447513	-0.0124225	0.00018834	8.62E-05	0.00480965
0.176436	0.00282417	-0.0126091	0.000206836	9.67E-05	0.00489616
0.176279	0.00118165	-0.0131936	0.000217534	9.83E-05	0.00490625
0.176108	-0.000469686	-0.0132759	0.000222168	8.76E-05	0.0049257
0.175939	-0.00209878	-0.0126563	0.000223275	7.71E-05	0.00491891
0.193135	0.00277903	-0.0139068	0.000254588	0.000134172	0.00505577
0.192972	0.00112171	-0.0144933	0.000263796	0.000136891	0.00508126
0.192791	-0.000506442	-0.0135781	0.00027341	0.000136675	0.00512456
0.192641	-0.0021656	-0.0141602	0.000275995	0.000133387	0.00515953
0.192476	-0.00382276	-0.0145403	0.000277549	0.000128082	0.00509741
0.209704	0.00108663	-0.0146704	0.000298737	0.000206868	0.00501426
0.209549	-0.000567951	-0.0147566	0.000303845	0.00020624	0.00503594
0.209379	-0.00222077	-0.0147411	0.00031276	0.000210002	0.00508112
0.209222	-0.00386684	-0.0152234	0.000318177	0.00020992	0.00507418
0.209033	-0.00550959	-0.014504	0.000333429	0.000222427	0.00499891
0.226318	-0.000618912	-0.0151115	0.00034344	0.000299835	0.00477487
0.226156	-0.00226176	-0.0152982	0.000346109	0.000296146	0.00480124
0.225982	-0.00391461	-0.0151828	0.000341802	0.000295143	0.00481155
0.225828	-0.00557094	-0.0152646	0.000351664	0.000295593	0.00483092
0.225654	-0.00722347	-0.0151449	0.000356399	0.000293109	0.00479074
0.225495	-0.00886913	-0.015423	0.000360408	0.00029289	0.00477434
0.242951	-0.00230944	-0.0153304	0.000370788	0.000397937	0.0042721
0.242807	-0.00397177	-0.0158164	0.000362647	0.00038933	0.00428309
0.24262	-0.0056231	-0.0155014	0.000349476	0.000394069	0.00427101
0.242552	-0.00729382	-0.0171808	0.000353027	0.000396704	0.00426489
0.242314	-0.00892823	-0.015863	0.000357973	0.000412402	0.00426378
0.242221	-0.0105992	-0.0173391	0.000358553	0.000413046	0.0042575
0.259676	-0.00403121	-0.0167241	0.000352189	0.00048877	0.00351377
0.259552	-0.00570037	-0.0174093	0.000345056	0.000490273	0.00351903
0.259414	-0.00735421	-0.0178929	0.000341179	0.000493572	0.00350885
0.259204	-0.00900047	-0.0170763	0.000356151	0.000511834	0.00350685
0.25902	-0.0106554	-0.016857	0.00035379	0.000539469	0.00350044
0.258915	-0.0123069	-0.0178333	0.000355237	0.000558481	0.00348905
0.276402	-0.0057297	-0.017094	0.000340742	0.000575297	0.00253697
0.276255	-0.00739517	-0.0173798	0.00034131	0.000578388	0.00253788
0.276147	-0.00907035	-0.0181618	0.000349201	0.000591338	0.00253859
0.275928	-0.0107206	-0.0175462	0.000348665	0.000595396	0.00253825
0.275811	-0.012365	-0.0180243	0.000332175	0.000619744	0.00253818
0.275671	-0.0140354	-0.0184012	0.000328416	0.000640852	0.00229473
0.293059	-0.00912152	-0.0182224	0.000324718	0.000653725	0.00162481
0.29288	-0.0107696	-0.0181076	0.000332965	0.000682275	0.00143876
0.292703	-0.0124298	-0.0178897	0.000328499	0.000703492	0.001433
0.292642	-0.0141055	-0.019065	0.000312044	0.000692576	0.0012316
0.292471	-0.0157565	-0.0190434	0.000303358	0.000707324	0.000831636
0.309933	-0.0108425	-0.019237	0.000279102	0.000755715	0.0002651
0.309761	-0.0125098	-0.0192217	0.000288258	0.00077145	0.000262926
0.309614	-0.0141661	-0.0193024	0.000295434	0.000781516	0.000254323
0.309464	-0.0158241	-0.0194818	0.000281658	0.000757112	0.000250189
0.309281	-0.0174892	-0.0193606	0.000283284	0.000746824	4.64E-05
0.309123	-0.0191434	-0.0193355	0.000284635	0.000752019	7.20E-06

0.326886	-0.0125885	-0.0205222	0.000239132	0.000823855	0.000920812
0.32655	-0.0142277	-0.019016	0.000250225	0.00082519	0.000927668
0.326462	-0.0158857	-0.0196939	0.000262657	0.000841642	0.00094241
0.326244	-0.0175323	-0.0192775	0.000246273	0.000826457	0.000948215
0.326179	-0.0192232	-0.0200483	0.000238987	0.000844069	0.000954933
0.325971	-0.0208719	-0.0197268	0.000227874	0.000849715	0.0011606
0.343489	-0.0159456	-0.0198783	0.000207736	0.000853969	0.0018711
0.343527	-0.0176441	-0.0214469	0.000216058	0.000857777	0.00206976
0.343197	-0.0192866	-0.020137	0.000180345	0.000864483	0.00208482
0.343208	-0.020984	-0.0215031	0.000173278	0.000876319	0.0020952
0.342957	-0.0226284	-0.0208848	0.000166354	0.000886295	0.00211506
0.34281	-0.0243065	-0.0209561	0.000173743	0.000897344	0.00211591
0.360363	-0.0176638	-0.0199202	0.000140058	0.000869174	0.00305237
0.360478	-0.0193917	-0.0218814	0.000144022	0.000862106	0.00305764
0.360132	-0.0210221	-0.020574	0.000125145	0.000846076	0.00305942
0.360031	-0.0226995	-0.0210471	0.000118421	0.000862902	0.00307756
0.36003	-0.0243988	-0.0222106	0.000107454	0.00087788	0.00310449
0.35974	-0.0260508	-0.0212923	0.000105811	0.000897776	0.00311579
0.377242	-0.0210928	-0.0209073	9.17E-05	0.000873188	0.00374268
0.37727	-0.0227944	-0.0220706	6.74E-05	0.000872044	0.00388617
0.37691	-0.0244273	-0.0208644	7.23E-05	0.000870445	0.00390182
0.376939	-0.0261343	-0.0221243	6.18E-05	0.000875106	0.00391684
0.376841	-0.0278162	-0.0224913	4.57E-05	0.000856475	0.0040406
0.394363	-0.0228418	-0.0219813	2.70E-05	0.000829178	0.00446855
0.394224	-0.0245196	-0.022159	2.09E-05	0.000832533	0.00449067
0.394114	-0.0262016	-0.0224308	1.32E-05	0.000841495	0.00451806
0.393957	-0.0278773	-0.0225057	1.41E-05	0.000843021	0.00453951
0.393847	-0.0295605	-0.0227733	4.41E-06	0.000832105	0.0045529
0.393773	-0.031254	-0.0233365	1.97E-06	0.00080001	0.00455472
0.411384	-0.0245886	-0.0222402	2.61E-05	0.000746843	0.00479125
0.411356	-0.0262894	-0.0230071	3.35E-05	0.00075209	0.00480518
0.41125	-0.0279628	-0.0232783	3.71E-05	0.000762017	0.0048393
0.411294	-0.0296802	-0.0244341	3.74E-05	0.000775813	0.00485651
0.41095	-0.031325	-0.0234232	4.52E-05	0.000768193	0.00487726
0.41081	-0.0330097	-0.023592	5.81E-05	0.00073269	0.00489405
0.428429	-0.0280345	-0.0232364	7.20E-05	0.000688031	0.0048366
0.428372	-0.0297219	-0.0238035	8.49E-05	0.000686915	0.00486181
0.428099	-0.0313868	-0.0232899	9.01E-05	0.000682784	0.00489114
0.428171	-0.033098	-0.0244382	9.91E-05	0.000685888	0.00489786
0.427878	-0.0347586	-0.0238224	0.000100202	0.000670546	0.00491395
0.427987	-0.0364812	-0.0251625	0.000103634	0.000667119	0.00491653
0.445676	-0.0298118	-0.0242272	0.000118726	0.000571672	0.00461414
0.445439	-0.0314745	-0.0239129	0.000124346	0.000568324	0.00464311
0.445132	-0.0331228	-0.0232026	0.000140571	0.000560962	0.0046673
0.445121	-0.0348383	-0.0239592	0.000148879	0.000556847	0.0046921
0.444875	-0.0364962	-0.023538	0.000148667	0.000569089	0.00470133
0.444926	-0.0382119	-0.0245839	0.000158199	0.00054236	0.00463009
0.462652	-0.0332384	-0.0244844	0.000147684	0.000454337	0.00425273
0.462358	-0.0348949	-0.0238734	0.000168944	0.000426588	0.00419564
0.462269	-0.0365875	-0.0242382	0.000176927	0.000440156	0.00421191
0.462259	-0.0382936	-0.0248903	0.000179032	0.000453709	0.00422306
0.462016	-0.0399598	-0.0245685	0.000182798	0.000437822	0.00423009

0.461926	-0.0416546	-0.024927	0.000185208	0.000428478	0.00422961
0.479765	-0.0349887	-0.0244466	0.000172322	0.000277224	0.00348859
0.479774	-0.0367023	-0.0252011	0.00018043	0.0002811	0.00349561
0.479634	-0.0383909	-0.0252699	0.000185417	0.000294657	0.00351127
0.479317	-0.0400361	-0.0246601	0.00018636	0.000305413	0.00352768
0.479431	-0.0417704	-0.0257937	0.000185911	0.000284596	0.00353893
0.479321	-0.043468	-0.0260539	0.000194465	0.000247531	0.00354152
0.497173	-0.0367912	-0.0255552	0.000181852	0.000144285	0.00267577
0.497034	-0.0384712	-0.0256261	0.000184689	0.000145412	0.00267825
0.496856	-0.0401609	-0.0256011	0.000188328	0.000150916	0.00268514
0.496814	-0.041858	-0.0260553	0.000189713	0.0001557	0.00270226
0.496757	-0.0435698	-0.0265105	0.000198144	0.000123007	0.00271246
0.496469	-0.0452246	-0.0259918	0.000204153	6.74E-05	0.00257067
0.514223	-0.0402327	-0.0256422	0.000196313	3.48E-05	0.00194668
0.514199	-0.0419389	-0.0261969	0.000196026	1.47E-05	0.00180933
0.513726	-0.0435693	-0.0250081	0.000199209	1.43E-05	0.00182634
0.514008	-0.0453294	-0.0267173	0.000200099	1.26E-05	0.00183595
0.513764	-0.0470128	-0.0263928	0.000205959	2.29E-05	0.00184433
0.513648	-0.0487045	-0.0265495	0.000209315	2.79E-05	0.00185197
0.53129	-0.0419669	-0.0251611	0.000208788	8.43E-05	0.00113459
0.531259	-0.0436752	-0.0256139	0.000200758	8.76E-05	0.00110511
0.531335	-0.0454024	-0.0264495	0.000192973	8.40E-05	0.00112777
0.531182	-0.0470946	-0.0265171	0.000198375	8.15E-05	0.00114072
0.531229	-0.0488204	-0.0272523	0.00019451	8.15E-05	0.00115274
0.531021	-0.0505042	-0.0271234	0.000205233	7.62E-05	0.00120628

Source File

Name: beam3lb\_15deg\_fast\_39.38Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 39.38 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0549392	0.0228373	-0.00629466	3.49E-05	1.77E-05	1.98E-05
0.0780733	0.0225747	-0.00487476	3.63E-05	2.30E-05	4.10E-05
0.0781382	0.0202145	-0.00469857	3.59E-05	2.23E-05	4.16E-05
0.0550104	0.0204406	-0.00592189	3.40E-05	1.64E-05	1.77E-05
0.0779724	0.0247563	-0.00447577	3.67E-05	2.15E-05	4.09E-05
0.101173	0.0246712	-0.00371792	3.97E-05	2.87E-05	7.97E-05
0.101215	0.0222476	-0.00325051	4.02E-05	3.03E-05	8.08E-05
0.101314	0.0200485	-0.00365014	3.96E-05	3.06E-05	8.18E-05
0.124387	0.0244582	-0.00245961	4.32E-05	3.66E-05	0.000129061
0.124461	0.0222313	-0.00276611	4.46E-05	3.99E-05	0.000131925
0.124456	0.0195503	-0.00143324	4.49E-05	4.00E-05	0.000133825

0.147741	0.0246739	-0.00282433	4.59E-05	4.73E-05	0.000172551
0.147738	0.0221136	-0.0018753	4.78E-05	5.20E-05	0.000183638
0.147823	0.0199391	-0.00237044	4.80E-05	5.44E-05	0.000189065
0.171161	0.0223856	-0.00240845	4.84E-05	5.99E-05	0.000229618
0.17112	0.0197544	-0.00126966	4.96E-05	6.42E-05	0.000241613
0.19461	0.0224297	-0.0021508	4.80E-05	6.66E-05	0.000260589
0.194665	0.0201694	-0.00235763	4.96E-05	7.22E-05	0.00028381
0.194668	0.0177415	-0.00188328	4.96E-05	7.30E-05	0.000289149
0.171213	0.0176048	-0.00185723	4.96E-05	6.53E-05	0.000248599
0.218089	0.020082	-0.00159716	4.96E-05	8.31E-05	0.000330446
0.218247	0.0180314	-0.00256512	4.95E-05	8.34E-05	0.000331755
0.241956	0.0183943	-0.00340054	4.90E-05	8.99E-05	0.000358171
0.241876	0.0158632	-0.00264566	4.88E-05	9.12E-05	0.000360197
0.218207	0.0155754	-0.00199472	4.92E-05	8.48E-05	0.000338308
0.265722	0.018688	-0.00401815	4.78E-05	9.44E-05	0.000372489
0.265652	0.0162051	-0.00345672	4.74E-05	9.71E-05	0.000376393
0.28958	0.0166345	-0.00461992	4.69E-05	0.00010069	0.000383076
0.289464	0.014096	-0.00386691	4.63E-05	9.81E-05	0.000384733
0.265859	0.0142477	-0.00480203	4.62E-05	9.59E-05	0.000379193
0.313814	0.0150406	-0.00689741	4.68E-05	9.96E-05	0.000378797
0.313679	0.0125148	-0.00613982	4.60E-05	9.76E-05	0.000382013
0.289654	0.0120719	-0.0049143	4.55E-05	9.66E-05	0.00039421
0.337932	0.0130928	-0.00789873	4.69E-05	9.82E-05	0.000364254
0.337778	0.0105627	-0.00714136	4.66E-05	9.77E-05	0.000364731
0.313662	0.0101279	-0.0059515	4.56E-05	9.83E-05	0.000386019
0.362157	0.0111824	-0.00905359	4.77E-05	9.64E-05	0.000336923
0.362159	0.00887783	-0.00914947	4.81E-05	9.66E-05	0.000334575
0.337965	0.00850441	-0.00818989	4.76E-05	9.96E-05	0.000367177
0.386671	0.00951085	-0.0111149	4.96E-05	9.06E-05	0.000297034
0.386707	0.00723082	-0.0114039	5.04E-05	8.92E-05	0.000294625
0.362083	0.00645367	-0.00886809	4.82E-05	9.55E-05	0.000336879
0.411435	0.00797711	-0.0137998	5.32E-05	8.07E-05	0.000246883
0.411135	0.00530185	-0.0125707	5.32E-05	8.25E-05	0.000244624
0.386617	0.00479156	-0.0110195	5.14E-05	9.07E-05	0.00029661
0.435783	0.00583216	-0.0141739	5.69E-05	7.34E-05	0.000195349
0.435922	0.00365325	-0.0148272	5.83E-05	7.41E-05	0.000189974
0.411123	0.00298242	-0.0126619	5.38E-05	8.31E-05	0.00024431
0.460883	0.00436749	-0.0171354	6.08E-05	6.48E-05	0.00013608
0.460662	0.00183041	-0.0164792	6.20E-05	6.26E-05	0.000131442
0.435996	0.00142436	-0.0152941	5.91E-05	7.33E-05	0.000188134
0.486066	0.00283029	-0.0199642	6.83E-05	5.28E-05	8.24E-05
0.485846	0.000302043	-0.0193009	6.81E-05	5.06E-05	8.23E-05
0.460808	-0.000333836	-0.0172259	6.29E-05	6.14E-05	0.000133959
0.511071	0.00100394	-0.0216114	7.20E-05	4.06E-05	3.88E-05
0.510763	-0.0015987	-0.020774	7.22E-05	3.89E-05	4.01E-05
0.485866	-0.00199664	-0.0195783	6.83E-05	4.96E-05	8.33E-05
0.521174	-0.00590469	-0.0222737	7.52E-05	3.41E-05	2.88E-05

0.532344	-0.00556036	-0.0234564	7.51E-05	3.09E-05	1.92E-05
0.53261	-0.00665513	-0.0235515	7.54E-05	3.08E-05	2.19E-05
0.531736	-0.00323504	-0.0232517	7.42E-05	3.22E-05	1.69E-05
0.510829	-0.00519119	-0.0212627	7.42E-05	4.06E-05	4.58E-05
0.511067	-0.00364639	-0.0219722	7.39E-05	3.91E-05	4.11E-05
0.531464	-0.000636824	-0.0241627	7.39E-05	2.97E-05	1.25E-05
0.513825	0.00126327	-0.0225661	7.32E-05	3.78E-05	2.23E-05
0.531034	-0.000243787	-0.0232202	7.40E-05	3.05E-05	9.13E-06
0.511338	0.00147453	-0.0224841	7.22E-05	4.34E-05	3.57E-05
0.497447	-0.00378757	-0.0216271	7.23E-05	4.45E-05	6.12E-05
0.48564	-0.0034438	-0.0188423	6.77E-05	5.17E-05	8.83E-05
0.490004	0.00289291	-0.0201401	7.07E-05	5.06E-05	6.19E-05
0.486291	0.00342667	-0.0207077	6.84E-05	5.48E-05	8.12E-05
0.472862	-0.00255002	-0.0176006	6.55E-05	5.64E-05	0.00010882
0.460595	-0.00168451	-0.0164635	6.28E-05	6.33E-05	0.000140998
0.466137	0.00434649	-0.0170395	6.30E-05	6.13E-05	0.000112535
0.460659	0.00467039	-0.0162594	6.01E-05	6.45E-05	0.000134575
0.449188	-0.000575854	-0.0164517	6.12E-05	6.79E-05	0.00016147
0.435889	0.000268215	-0.0148818	5.87E-05	7.44E-05	0.000193719
0.442648	0.00605576	-0.0149604	5.78E-05	6.83E-05	0.000170006
0.436054	0.00678882	-0.0152344	5.72E-05	6.99E-05	0.000185798
0.425215	0.000958775	-0.0136879	5.63E-05	7.89E-05	0.000217063
0.41122	0.002147	-0.0130734	5.28E-05	8.37E-05	0.000248867
0.41938	0.00768484	-0.0125442	5.47E-05	7.60E-05	0.000223968
0.428904	0.00731326	-0.01461	5.67E-05	7.20E-05	0.000201847
0.411291	0.00866179	-0.0131183	5.34E-05	7.98E-05	0.000241712
0.401491	0.00262331	-0.0114695	5.12E-05	8.63E-05	0.000266761
0.3863	0.00357309	-0.00961574	5.07E-05	9.10E-05	0.00029805
0.396898	0.00980834	-0.0120606	5.09E-05	8.68E-05	0.000273621
0.386574	0.0104333	-0.0106749	4.93E-05	9.06E-05	0.000293819
0.378167	0.00462462	-0.010556	5.04E-05	9.32E-05	0.000318004
0.36198	0.00558079	-0.00838478	4.82E-05	9.53E-05	0.000340787
0.374084	0.0114148	-0.0096955	4.83E-05	9.48E-05	0.00031953
0.362175	0.0124377	-0.00913116	4.81E-05	9.69E-05	0.000333705
0.35473	0.00640494	-0.0087758	4.75E-05	9.70E-05	0.000353769
0.337815	0.00764661	-0.00739672	4.79E-05	9.97E-05	0.000369834
0.351713	0.0134775	-0.00903954	4.80E-05	9.86E-05	0.000352242
0.338012	0.0146575	-0.00840444	4.79E-05	9.92E-05	0.00036016
0.331615	0.00846212	-0.00812342	4.75E-05	0.00010092	0.000375977
0.313588	0.00949077	-0.00561168	4.61E-05	0.000100784	0.000387339
0.329432	0.0155913	-0.00858525	4.77E-05	0.000101296	0.000368465
0.313854	0.0163786	-0.00715417	4.72E-05	0.000102285	0.000381844
0.325485	0.0151794	-0.00583818	4.74E-05	0.000103081	0.000372402
0.308278	0.0100475	-0.00574615	4.55E-05	0.000100416	0.000397443
0.289647	0.0116297	-0.00493111	4.55E-05	9.81E-05	0.000402307
0.299459	0.0168395	-0.00516243	4.68E-05	0.00010198	0.000385198
0.289624	0.0174539	-0.00491174	4.69E-05	0.000100404	0.000382816

0.285278	0.0120117	-0.00478451	4.56E-05	9.66E-05	0.000394293
0.265897	0.0139484	-0.00498314	4.59E-05	9.65E-05	0.000383148
0.268731	0.0187627	-0.00429145	4.73E-05	9.58E-05	0.000376394
0.265686	0.0188604	-0.00387085	4.78E-05	9.35E-05	0.000371541
0.260457	0.0137864	-0.0031919	4.69E-05	9.32E-05	0.000376983
0.263936	0.0137085	-0.00344818	4.64E-05	9.56E-05	0.000383033
0.241787	0.0142153	-0.00185587	4.85E-05	8.89E-05	0.00036068
0.241953	0.0204718	-0.00355704	4.89E-05	9.09E-05	0.000362302
0.218263	0.0153848	-0.00235368	4.93E-05	8.38E-05	0.000339497
0.238194	0.0207826	-0.0037487	4.92E-05	8.94E-05	0.000354474
0.218151	0.0214358	-0.00215331	4.91E-05	8.14E-05	0.000323447
0.234423	0.0207433	-0.00267125	4.96E-05	8.90E-05	0.000349309
0.212459	0.0153458	-0.00125628	4.92E-05	7.95E-05	0.000322739
0.19469	0.01629	-0.00186487	4.92E-05	7.15E-05	0.000287946
0.198332	0.0224927	-0.00227072	4.73E-05	7.03E-05	0.00027748
0.194626	0.0226806	-0.00228775	4.64E-05	6.53E-05	0.000258381
0.171236	0.0173359	-0.0019295	4.91E-05	6.59E-05	0.00025186
0.171133	0.0239267	-0.00239679	4.65E-05	5.76E-05	0.000228595
0.162563	0.0173338	-0.00100398	4.85E-05	5.94E-05	0.000218416
0.166008	0.0173863	-0.00132568	4.86E-05	6.13E-05	0.000230079
0.14772	0.0172699	-0.000308883	4.74E-05	5.23E-05	0.000182065
0.15763	0.0248285	-0.00316952	4.60E-05	5.00E-05	0.000191833
0.147677	0.0249057	-0.00193101	4.55E-05	4.51E-05	0.000169018
0.150646	0.0250053	-0.00251512	4.62E-05	4.79E-05	0.000182242
0.12452	0.0179058	-0.00188517	4.39E-05	4.01E-05	0.000133066
0.124385	0.0257206	-0.00304166	4.28E-05	3.65E-05	0.000126932
0.101337	0.0184941	-0.00324894	3.93E-05	2.97E-05	8.23E-05
0.101126	0.0265148	-0.00403403	4.04E-05	2.82E-05	7.88E-05
0.0781697	0.0190085	-0.00430513	3.50E-05	2.09E-05	4.19E-05
0.0811702	0.0274288	-0.00570081	3.90E-05	2.22E-05	4.62E-05
0.0779133	0.0271724	-0.00483803	3.76E-05	1.98E-05	3.44E-05
0.0779181	0.0272981	-0.00501033	3.86E-05	1.99E-05	3.40E-05
0.0550432	0.0197606	-0.0063174	3.11E-05	1.38E-05	1.75E-05
0.0550205	0.025345	-0.00704627	3.67E-05	1.90E-05	2.09E-05
0.0551976	0.0273597	-0.00595796	3.73E-05	1.79E-05	1.96E-05
0.0552652	0.0281038	-0.00605886	3.81E-05	1.84E-05	2.12E-05
0.0545915	0.0204364	-0.00593019	3.31E-05	1.50E-05	1.35E-05
0.0545443	0.0199602	-0.00699706	2.98E-05	1.26E-05	1.23E-05

#### Source File

Name: beam3lb\_15deg\_fast\_149.4Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 149.4 Hz

Interpolated: Yes

Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0549392	0.0228373	-0.00629466	6.78E-05	1.18E-05	0.000298385
0.0780733	0.0225747	-0.00487476	3.18E-05	8.49E-05	0.000675117
0.0781382	0.0202145	-0.00469857	3.48E-05	8.31E-05	0.00066731
0.0550104	0.0204406	-0.00592189	7.01E-05	1.00E-05	0.000251805
0.0779724	0.0247563	-0.00447577	2.59E-05	7.86E-05	0.000680476
0.101173	0.0246712	-0.00371792	3.39E-05	0.000227296	0.00130988
0.101215	0.0222476	-0.00325051	2.67E-05	0.000228753	0.0013048
0.101314	0.0200485	-0.00365014	1.57E-05	0.000227512	0.00129683
0.124387	0.0244582	-0.00245961	8.72E-05	0.000388085	0.00197182
0.124461	0.0222313	-0.00276611	7.81E-05	0.000401856	0.00196738
0.124456	0.0195503	-0.00143324	6.45E-05	0.000403751	0.00196206
0.147741	0.0246739	-0.00282433	0.000105457	0.000545065	0.00247594
0.147738	0.0221136	-0.0018753	9.99E-05	0.000578765	0.00251401
0.147823	0.0199391	-0.00237044	8.74E-05	0.000586409	0.00250516
0.171161	0.0223856	-0.00240845	9.90E-05	0.000734452	0.0028289
0.17112	0.0197544	-0.00126966	8.97E-05	0.000742736	0.00282883
0.19461	0.0224297	-0.0021508	9.77E-05	0.00087154	0.00290049
0.194665	0.0201694	-0.00235763	8.45E-05	0.000883356	0.00283656
0.194668	0.0177415	-0.00188328	8.04E-05	0.000883926	0.00282906
0.171213	0.0176048	-0.00185723	8.46E-05	0.000757362	0.00286628
0.218089	0.020082	-0.00159716	7.24E-05	0.000959399	0.00255804
0.218247	0.0180314	-0.00256512	6.91E-05	0.00096488	0.00250055
0.241956	0.0183943	-0.00340054	6.60E-05	0.000993364	0.00187188
0.241876	0.0158632	-0.00264566	4.97E-05	0.000976978	0.00185508
0.218207	0.0155754	-0.00199472	5.22E-05	0.000958993	0.00245433
0.265722	0.018688	-0.00401815	6.86E-05	0.000985579	0.00116401
0.265652	0.0162051	-0.00345672	6.85E-05	0.00096122	0.000970606
0.28958	0.0166345	-0.00461992	7.63E-05	0.000912634	9.66E-05
0.289464	0.014096	-0.00386691	9.51E-05	0.000883503	0.000119819
0.265859	0.0142477	-0.00480203	7.83E-05	0.000952573	0.000825119
0.313814	0.0150406	-0.00689741	0.000135678	0.000820858	0.00112792
0.313679	0.0125148	-0.00613982	0.000134103	0.000814598	0.00122857
0.289654	0.0120719	-0.0049143	9.19E-05	0.000871041	0.000296905
0.337932	0.0130928	-0.00789873	0.00019081	0.000710506	0.00211445
0.337778	0.0105627	-0.00714136	0.000192943	0.000683199	0.00228993
0.313662	0.0101279	-0.0059515	0.000127703	0.000800771	0.00142219
0.362157	0.0111824	-0.00905359	0.000231955	0.000584761	0.00300259
0.362159	0.00887783	-0.00914947	0.000243489	0.000553656	0.00312521
0.337965	0.00850441	-0.00818989	0.000210643	0.00065496	0.00247533
0.386671	0.00951085	-0.0111149	0.00029068	0.0004827	0.00354599
0.386707	0.00723082	-0.0114039	0.000298414	0.000449974	0.00360665
0.362083	0.00645367	-0.00886809	0.000251826	0.000516617	0.00326614

0.411435	0.00797711	-0.0137998	0.000328328	0.000367158	0.00376216
0.411135	0.00530185	-0.0125707	0.000336073	0.000346003	0.0037696
0.386617	0.00479156	-0.0110195	0.000309284	0.000433517	0.00371613
0.435783	0.00583216	-0.0141739	0.000342087	0.000264484	0.00358392
0.435922	0.00365325	-0.0148272	0.000341193	0.000265101	0.00353261
0.411123	0.00298242	-0.0126619	0.000351441	0.000333181	0.00384435
0.460883	0.00436749	-0.0171354	0.000312983	0.000208519	0.00303149
0.460662	0.00183041	-0.0164792	0.00030343	0.000193991	0.00295766
0.435996	0.00142436	-0.0152941	0.000352125	0.000259202	0.00358743
0.486066	0.00283029	-0.0199642	0.000220582	0.000134787	0.00220749
0.485846	0.000302043	-0.0193009	0.000239531	9.98E-05	0.00208698
0.460808	-0.000333836	-0.0172259	0.000321826	0.000171872	0.00295337
0.511071	0.00100394	-0.0216114	0.000177235	6.32E-05	0.00124385
0.510763	-0.0015987	-0.020774	0.00017679	6.28E-05	0.00118269
0.485866	-0.00199664	-0.0195783	0.000259292	0.000113442	0.00208027
0.521174	-0.00590469	-0.0222737	0.000159937	2.93E-05	0.000807633
0.532344	-0.00556036	-0.0234564	0.00013462	6.05E-05	0.000564399
0.53261	-0.00665513	-0.0235515	0.000142472	8.67E-05	0.000603601
0.531736	-0.00323504	-0.0232517	0.000128923	1.02E-05	0.000585006
0.510829	-0.00519119	-0.0212627	0.000185941	6.61E-05	0.00127003
0.511067	-0.00364639	-0.0219722	0.000174094	6.92E-05	0.00116769
0.531464	-0.000636824	-0.0241627	0.00011928	5.11E-06	0.000537919
0.513825	0.00126327	-0.0225661	0.000140073	3.80E-05	0.000910151
0.531034	-0.000243787	-0.0232202	0.000108604	9.06E-06	0.000532831
0.511338	0.00147453	-0.0224841	0.000163964	7.31E-05	0.00124574
0.497447	-0.00378757	-0.0216271	0.000209872	0.00010425	0.00163385
0.48564	-0.0034438	-0.0188423	0.000273052	0.00013856	0.002201
0.490004	0.00289291	-0.0201401	0.000183856	0.000121644	0.00183085
0.486291	0.00342667	-0.0207077	0.000213495	0.000143875	0.00219908
0.472862	-0.00255002	-0.0176006	0.000311037	0.000154882	0.00255474
0.460595	-0.00168451	-0.0164635	0.000338923	0.000188265	0.00304846
0.466137	0.00434649	-0.0170395	0.00028197	0.000178497	0.00272109
0.460659	0.00467039	-0.0162594	0.000315279	0.000203917	0.00301568
0.449188	-0.000575854	-0.0164517	0.000344287	0.000221794	0.00331721
0.435889	0.000268215	-0.0148818	0.000355992	0.000266189	0.00365785
0.442648	0.00605576	-0.0149604	0.00033622	0.000232664	0.0033891
0.436054	0.00678882	-0.0152344	0.000336881	0.000261321	0.00354231
0.425215	0.000958775	-0.0136879	0.000358125	0.000290069	0.00379021
0.41122	0.002147	-0.0130734	0.000354047	0.000332685	0.00389226
0.41938	0.00768484	-0.0125442	0.000329335	0.000342852	0.00374035
0.428904	0.00731326	-0.01461	0.000332846	0.000308877	0.00364085
0.411291	0.00866179	-0.0131183	0.000322366	0.000374347	0.00373228
0.401491	0.00262331	-0.0114695	0.000341527	0.000368002	0.00386904
0.3863	0.00357309	-0.00961574	0.000309519	0.000430931	0.00373747
0.396898	0.00980834	-0.0120606	0.000304062	0.000448449	0.00363005
0.386574	0.0104333	-0.0106749	0.000285914	0.000494807	0.00350507
0.378167	0.00462462	-0.010556	0.000286952	0.000463659	0.00358361

0.36198	0.00558079	-0.00838478	0.000251039	0.00051646	0.00326501
0.374084	0.0114148	-0.0096955	0.000249805	0.000555936	0.0032111
0.362175	0.0124377	-0.00913116	0.000229693	0.000601519	0.0029379
0.35473	0.00640494	-0.0087758	0.000232368	0.000571572	0.00297301
0.337815	0.00764661	-0.00739672	0.000211448	0.000663865	0.00245196
0.351713	0.0134775	-0.00903954	0.000208565	0.000670627	0.00243225
0.338012	0.0146575	-0.00840444	0.000191829	0.000704852	0.00215784
0.331615	0.00846212	-0.00812342	0.000185186	0.000727055	0.00205848
0.313588	0.00949077	-0.00561168	0.000126917	0.000810601	0.00141017
0.329432	0.0155913	-0.00858525	0.000147255	0.000744218	0.00173749
0.313854	0.0163786	-0.00715417	0.000122905	0.000819594	0.00108527
0.325485	0.0151794	-0.00583818	0.00011656	0.000743112	0.0016081
0.308278	0.0100475	-0.00574615	0.000102242	0.000843827	0.000967453
0.289647	0.0116297	-0.00493111	8.93E-05	0.000877762	0.000290019
0.299459	0.0168395	-0.00516243	9.28E-05	0.000896876	0.000298062
0.289624	0.0174539	-0.00491174	7.51E-05	0.000932365	0.000148412
0.285278	0.0120117	-0.00478451	9.01E-05	0.000906739	0.000153177
0.265897	0.0139484	-0.00498314	8.59E-05	0.000958926	0.000795049
0.268731	0.0187627	-0.00429145	7.02E-05	0.00097456	0.000799498
0.265686	0.0188604	-0.00387085	7.20E-05	0.000990237	0.00120369
0.260457	0.0137864	-0.0031919	4.89E-05	0.00097623	0.00125433
0.263936	0.0137085	-0.00344818	5.39E-05	0.000978375	0.00105015
0.241787	0.0142153	-0.00185587	3.90E-05	0.000968876	0.00188076
0.241953	0.0204718	-0.00355704	7.21E-05	0.000998832	0.00179737
0.218263	0.0153848	-0.00235368	4.80E-05	0.000948949	0.00243595
0.238194	0.0207826	-0.0037487	6.59E-05	0.000988933	0.00220455
0.218151	0.0214358	-0.00215331	7.54E-05	0.000956397	0.00256678
0.234423	0.0207433	-0.00267125	6.20E-05	0.000987096	0.00227499
0.212459	0.0153458	-0.00125628	5.69E-05	0.000930592	0.00265482
0.19469	0.01629	-0.00186487	7.57E-05	0.00086868	0.00283682
0.198332	0.0224927	-0.00227072	9.42E-05	0.000912417	0.00284507
0.194626	0.0226806	-0.00228775	0.000102113	0.000864936	0.0029023
0.171236	0.0173359	-0.0019295	8.56E-05	0.000763134	0.0028721
0.171133	0.0239267	-0.00239679	0.000105688	0.000733593	0.00283519
0.162563	0.0173338	-0.00100398	8.58E-05	0.000682371	0.00276157
0.166008	0.0173863	-0.00132568	8.70E-05	0.000710121	0.00282553
0.14772	0.0172699	-0.000308883	8.22E-05	0.000571922	0.00247717
0.15763	0.0248285	-0.00316952	0.000107944	0.000612998	0.00266106
0.147677	0.0249057	-0.00193101	0.000105502	0.000525279	0.00245951
0.150646	0.0250053	-0.00251512	0.00010929	0.00058173	0.00260782
0.12452	0.0179058	-0.00188517	5.58E-05	0.000399875	0.00195579
0.124385	0.0257206	-0.00304166	8.63E-05	0.000374539	0.00196582
0.101337	0.0184941	-0.00324894	1.17E-05	0.000219904	0.00129466
0.101126	0.0265148	-0.00403403	3.55E-05	0.00021515	0.00131117
0.0781697	0.0190085	-0.00430513	3.68E-05	7.92E-05	0.000667886
0.0811702	0.0274288	-0.00570081	1.43E-05	8.84E-05	0.000778481
0.0779133	0.0271724	-0.00483803	3.31E-05	4.68E-05	0.000569574

0.0779181	0.0272981	-0.00501033	3.28E-05	4.27E-05	0.000553054
0.0550432	0.0197606	-0.0063174	7.36E-05	1.09E-05	0.000261109
0.0550205	0.025345	-0.00704627	5.32E-05	1.10E-05	0.000303308
0.0551976	0.0273597	-0.00595796	5.15E-05	9.44E-06	0.00028044
0.0552652	0.0281038	-0.00605886	4.92E-05	1.34E-05	0.000302072
0.0545915	0.0204364	-0.00593019	7.47E-05	8.33E-06	0.000163731
0.0545443	0.0199602	-0.00699706	8.02E-05	1.26E-05	0.000162458

Source File Name: beam3lb\_30deg\_fast\_55Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 55.00 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0617422	0.0229394	-0.0084412	3.42E-06	3.70E-06	4.72E-07
0.0615964	0.0215636	-0.00880869	3.06E-06	1.28E-06	2.90E-07
0.0614824	0.0201509	-0.00877738	2.80E-06	1.89E-07	2.15E-07
0.0614151	0.0186639	-0.00815103	2.81E-06	8.51E-07	2.52E-07
0.0613162	0.0172138	-0.00792039	2.69E-06	1.52E-06	2.20E-07
0.0610939	0.0159738	-0.00926962	3.07E-06	7.76E-07	4.18E-07
0.061042	0.0144506	-0.00844224	3.35E-06	4.76E-07	5.24E-07
0.0759574	0.0219937	-0.00838083	3.44E-06	3.91E-06	9.81E-07
0.0758206	0.0206065	-0.00864978	3.57E-06	2.57E-06	7.73E-07
0.075658	0.0192828	-0.00931153	2.81E-06	1.39E-06	8.54E-08
0.0755546	0.0178325	-0.00908254	2.35E-06	1.77E-06	1.36E-07
0.0754655	0.0163723	-0.00865223	2.05E-06	1.41E-06	5.05E-07
0.0753224	0.0149965	-0.00901421	2.20E-06	1.58E-06	8.30E-07
0.0752203	0.0135617	-0.00877882	2.37E-06	1.23E-06	8.43E-07
0.0899683	0.0197944	-0.00962192	3.44E-06	3.30E-06	1.68E-06
0.0897891	0.01852	-0.0106808	3.80E-06	1.99E-06	1.69E-06
0.0897147	0.0169958	-0.00985744	2.84E-06	1.55E-06	1.02E-06
0.0896293	0.0154979	-0.00923054	2.87E-06	1.53E-06	1.39E-06
0.0894893	0.0141364	-0.00959138	2.77E-06	9.31E-07	1.28E-06
0.0894043	0.0126405	-0.00896121	2.39E-06	1.61E-06	1.44E-06
0.104121	0.0190861	-0.0114315	2.82E-06	2.53E-06	3.14E-06
0.103987	0.0176974	-0.0117001	3.45E-06	1.27E-06	2.67E-06
0.103906	0.0161615	-0.0107774	2.51E-06	3.48E-07	2.10E-06
0.103808	0.0146901	-0.0102479	2.96E-06	1.58E-06	2.77E-06
0.103669	0.0133143	-0.010611	2.72E-06	1.52E-06	2.19E-06
0.103544	0.0119022	-0.010675	2.40E-06	1.37E-06	2.87E-06
0.118321	0.0183935	-0.0133839	4.03E-06	2.55E-06	6.15E-06
0.118228	0.016856	-0.0124629	4.40E-06	2.06E-06	5.48E-06
0.118094	0.0154668	-0.0127304	4.71E-06	1.05E-06	5.04E-06
0.117991	0.0139686	-0.0121036	4.54E-06	2.37E-06	5.85E-06

0.117851	0.0126035	-0.0125666	3.91E-06	1.11E-06	3.90E-06
0.117742	0.0111308	-0.012135	3.67E-06	1.49E-06	5.18E-06
0.132575	0.0176287	-0.014884	4.31E-06	2.06E-06	8.22E-06
0.132467	0.0161032	-0.0140624	4.79E-06	2.02E-06	6.73E-06
0.132348	0.0146402	-0.0137351	4.90E-06	3.01E-06	7.95E-06
0.132227	0.0132039	-0.0135038	4.52E-06	2.34E-06	7.47E-06
0.132095	0.0118139	-0.0137689	3.45E-06	1.23E-06	5.57E-06
0.13198	0.0103549	-0.0133359	3.17E-06	2.25E-06	6.23E-06
0.146883	0.016844	-0.0161261	4.48E-06	1.80E-06	8.50E-06
0.146748	0.0154883	-0.0166943	4.00E-06	2.21E-06	6.45E-06
0.146637	0.0138788	-0.0151764	4.05E-06	2.48E-06	7.89E-06
0.146497	0.0125828	-0.0162379	3.44E-06	2.12E-06	8.15E-06
0.146372	0.0111311	-0.0160072	3.25E-06	2.04E-06	6.54E-06
0.146247	0.00969401	-0.0157733	3.44E-06	1.90E-06	7.40E-06
0.161227	0.016122	-0.0180053	4.46E-06	2.93E-06	1.22E-05
0.161096	0.0147039	-0.0180778	3.91E-06	1.87E-06	9.69E-06
0.160966	0.0132978	-0.0182481	3.75E-06	1.75E-06	1.06E-05
0.160836	0.0119033	-0.0185161	3.92E-06	1.30E-06	9.89E-06
0.160706	0.0104262	-0.0180875	3.89E-06	1.47E-06	8.49E-06
0.160576	0.00898737	-0.0178542	4.59E-06	1.14E-06	1.10E-05
0.175643	0.0156099	-0.0215101	6.66E-06	3.08E-06	1.83E-05
0.175502	0.0140922	-0.0207893	5.67E-06	2.38E-06	1.42E-05
0.175365	0.0126098	-0.0204656	5.70E-06	1.74E-06	1.67E-05
0.175227	0.0111187	-0.01994	4.90E-06	2.34E-06	1.21E-05
0.175104	0.00979238	-0.0208029	5.97E-06	2.44E-06	1.47E-05
0.174967	0.00831636	-0.0202724	6.56E-06	2.72E-06	1.72E-05
0.190117	0.0148908	-0.0234663	7.47E-06	2.82E-06	2.03E-05
0.189963	0.0134319	-0.0232428	6.06E-06	2.64E-06	1.69E-05
0.189817	0.0119375	-0.0227197	4.78E-06	2.82E-06	1.40E-05
0.189695	0.0105732	-0.023287	4.50E-06	2.61E-06	1.45E-05
0.189554	0.00910344	-0.0229592	6.33E-06	2.70E-06	1.70E-05
0.189427	0.00771506	-0.0233249	7.95E-06	3.04E-06	2.18E-05
0.204651	0.0142581	-0.0261543	6.94E-06	2.86E-06	2.09E-05
0.204503	0.0127837	-0.0258323	6.36E-06	2.85E-06	1.60E-05
0.204365	0.0113455	-0.0258064	7.19E-06	3.28E-06	1.90E-05
0.204218	0.00987265	-0.0254811	5.59E-06	2.56E-06	1.53E-05
0.204077	0.00842372	-0.0253526	6.86E-06	2.37E-06	1.99E-05
0.203977	0.00712637	-0.0264125	6.97E-06	2.97E-06	1.94E-05
0.219314	0.0137439	-0.0298695	6.79E-06	2.37E-06	1.98E-05
0.219155	0.0122898	-0.0297476	8.04E-06	2.70E-06	2.37E-05
0.219006	0.0108238	-0.0295242	8.30E-06	4.09E-06	2.18E-05
0.218844	0.00932378	-0.0290016	7.36E-06	3.61E-06	2.17E-05
0.218712	0.00790522	-0.0291719	6.59E-06	3.43E-06	1.86E-05
0.218537	0.00638711	-0.0283465	5.93E-06	3.03E-06	1.73E-05
0.233856	0.0116527	-0.0325056	5.97E-06	2.08E-06	1.74E-05
0.23373	0.0102413	-0.0327792	5.46E-06	2.43E-06	1.58E-05
0.23356	0.00873777	-0.0322578	4.05E-06	1.69E-06	1.17E-05
0.233406	0.00726962	-0.0320323	4.43E-06	1.52E-06	1.38E-05
0.233308	0.00592893	-0.0327955	5.01E-06	1.96E-06	1.50E-05
0.233154	0.00446106	-0.0325669	6.09E-06	2.08E-06	1.81E-05
0.248678	0.0110845	-0.0358908	4.64E-06	2.22E-06	1.49E-05
0.248505	0.00958808	-0.0354715	2.44E-06	1.61E-06	7.36E-06

0.248414	0.00822956	-0.03624	2.69E-06	1.42E-06	8.14E-06
0.248249	0.00675955	-0.035915	3.36E-06	1.29E-06	1.10E-05
0.24815	0.00538811	-0.0365814	5.05E-06	1.54E-06	1.56E-05
0.247971	0.00388248	-0.0360565	5.98E-06	2.18E-06	1.66E-05
0.263491	0.00915416	-0.039977	3.88E-06	3.18E-06	1.35E-05
0.263311	0.00765354	-0.0395576	4.09E-06	3.31E-06	1.28E-05
0.263211	0.00628035	-0.0401254	4.84E-06	2.61E-06	1.58E-05
0.262985	0.00471424	-0.0391083	3.89E-06	1.16E-06	1.27E-05
0.262885	0.00334935	-0.039874	4.47E-06	1.40E-06	1.04E-05
0.262736	0.00188079	-0.039846	5.67E-06	3.21E-06	1.63E-05
0.278597	0.00871346	-0.044611	4.01E-06	3.97E-06	1.79E-05
0.278455	0.00726339	-0.0446881	5.67E-06	3.88E-06	2.04E-05
0.278265	0.005784	-0.0443672	5.78E-06	2.56E-06	1.78E-05
0.278069	0.0042683	-0.0438472	4.66E-06	8.42E-07	1.25E-05
0.277989	0.00289582	-0.0446125	2.59E-06	3.32E-07	1.05E-05
0.277714	0.00128407	-0.043198	2.80E-06	2.24E-06	7.10E-06
0.293566	0.00670116	-0.0483617	5.84E-06	2.14E-06	2.08E-05
0.293394	0.00522714	-0.0481401	6.91E-06	1.20E-06	2.16E-05
0.29326	0.00378321	-0.0483141	6.48E-06	2.23E-07	2.08E-05
0.293026	0.00223079	-0.0474974	4.93E-06	3.49E-07	1.46E-05
0.292853	0.000744685	-0.0472725	4.91E-06	1.29E-06	1.53E-05
0.292818	-0.000592079	-0.048431	6.93E-06	2.08E-06	2.04E-05
0.308949	0.0062892	-0.0534426	8.13E-06	2.47E-06	2.61E-05
0.30866	0.00469902	-0.0522349	8.69E-06	1.96E-06	2.80E-05
0.308634	0.00336948	-0.0534982	8.23E-06	7.47E-07	2.70E-05
0.308445	0.00187897	-0.0531763	7.48E-06	7.95E-07	2.40E-05
0.308266	0.000385587	-0.0529531	7.69E-06	1.27E-06	2.41E-05
0.308109	-0.00108604	-0.052926	9.64E-06	2.54E-06	2.80E-05
0.307886	-0.00261998	-0.0523042	1.02E-05	2.68E-06	2.87E-05
0.324223	0.00436688	-0.0580314	8.79E-06	2.81E-06	2.90E-05
0.324052	0.00287681	-0.057912	8.20E-06	2.10E-06	2.72E-05
0.323831	0.00134457	-0.0573962	6.12E-06	9.78E-07	1.93E-05
0.323672	-0.000133589	-0.0573721	7.50E-06	1.56E-06	2.38E-05
0.323403	-0.00169106	-0.0564564	7.14E-06	1.92E-06	2.19E-05
0.32339	-0.00304364	-0.0576136	6.79E-06	2.54E-06	2.04E-05
0.339554	0.00234287	-0.0621524	5.93E-06	2.18E-06	2.02E-05
0.339512	0.000967338	-0.0630167	4.82E-06	2.30E-06	1.45E-05
0.339244	-0.000602304	-0.0622058	4.67E-06	2.43E-06	1.50E-05
0.339055	-0.00210783	-0.0619845	5.01E-06	2.15E-06	1.57E-05
0.338866	-0.00359813	-0.0617599	4.84E-06	8.70E-07	1.54E-05
0.338783	-0.0050211	-0.0623241	4.52E-06	1.69E-06	1.49E-05
0.355091	0.000400512	-0.0670833	4.02E-06	2.17E-06	1.28E-05
0.354941	-0.00106668	-0.0671591	5.06E-06	2.77E-06	1.67E-05
0.354776	-0.00255871	-0.0671366	7.20E-06	1.50E-06	2.20E-05
0.354682	-0.00398503	-0.067603	7.86E-06	1.43E-06	2.44E-05
0.354431	-0.00553742	-0.0669866	6.33E-06	1.92E-06	1.95E-05
0.354294	-0.00699404	-0.0671545	5.14E-06	1.84E-06	1.60E-05
0.371046	1.90E-05	-0.0728382	3.69E-06	8.91E-07	1.23E-05
0.3708	-0.00153288	-0.0723277	5.00E-06	1.15E-06	1.57E-05
0.370833	-0.0028855	-0.0735827	7.37E-06	1.58E-06	2.33E-05
0.370496	-0.00448244	-0.0724777	8.76E-06	1.66E-06	2.75E-05
0.370327	-0.00598179	-0.0724536	6.90E-06	2.30E-06	2.22E-05

0.370251	-0.00740701	-0.0730161	4.62E-06	1.19E-06	1.55E-05
0.386968	-0.00187991	-0.0785901	4.17E-06	7.22E-07	1.35E-05
0.386828	-0.00336478	-0.0786652	6.71E-06	1.19E-06	2.12E-05
0.386624	-0.00487851	-0.0784468	7.94E-06	1.66E-06	2.56E-05
0.386452	-0.00638657	-0.0784245	7.04E-06	1.23E-06	2.28E-05
0.386347	-0.0078405	-0.0787916	4.81E-06	1.73E-06	1.60E-05
0.386093	-0.00938202	-0.0782738	3.23E-06	2.03E-06	9.81E-06
0.4029	-0.00387118	-0.0835688	3.76E-06	1.70E-06	1.22E-05
0.402762	-0.00535282	-0.0837442	4.04E-06	2.02E-06	1.28E-05
0.402552	-0.00687377	-0.0835262	4.78E-06	7.10E-07	1.61E-05
0.402484	-0.00831657	-0.0840903	3.63E-06	1.15E-06	1.15E-05
0.402327	-0.00980826	-0.084163	2.62E-06	1.13E-06	8.25E-06
0.401852	-0.0114852	-0.082472	3.35E-06	1.06E-06	1.11E-05
0.419128	-0.00578735	-0.0895425	3.75E-06	9.11E-07	1.08E-05
0.418913	-0.00731694	-0.0893268	3.95E-06	1.62E-06	1.17E-05
0.41868	-0.00885544	-0.0890117	2.01E-06	1.53E-06	8.71E-06
0.418521	-0.0103551	-0.089086	2.49E-06	2.42E-06	8.02E-06
0.418381	-0.0118453	-0.0892565	3.91E-06	1.51E-06	1.22E-05
0.418315	-0.0132836	-0.0898152	3.81E-06	1.69E-06	1.26E-05
0.435763	-0.00615928	-0.0959324	6.90E-06	1.39E-06	1.27E-05
0.435504	-0.00771756	-0.095524	5.20E-06	9.31E-07	9.81E-06
0.435363	-0.00921774	-0.0956994	2.09E-06	1.86E-06	8.76E-06
0.434985	-0.0108308	-0.0947022	1.85E-06	1.75E-06	7.16E-06
0.434884	-0.0122964	-0.0950678	3.35E-06	1.98E-06	8.45E-06
0.43486	-0.0137409	-0.095824	2.94E-06	1.58E-06	7.58E-06
0.452116	-0.00818609	-0.101144	5.52E-06	1.41E-06	9.39E-06
0.452141	-0.00962025	-0.1021	2.56E-06	1.98E-06	8.31E-06
0.451542	-0.0113201	-0.100132	2.13E-06	8.81E-07	6.29E-06
0.451518	-0.0127835	-0.100789	2.08E-06	1.52E-06	5.36E-06
0.451521	-0.0142288	-0.101643	2.03E-06	2.63E-06	5.70E-06
0.451233	-0.0157863	-0.101113	1.87E-06	2.43E-06	5.52E-06
0.468979	-0.0100824	-0.108016	2.48E-06	1.16E-06	5.65E-06
0.468508	-0.0117254	-0.106734	1.42E-06	1.93E-06	3.61E-06
0.468518	-0.0131804	-0.107589	1.21E-06	2.80E-06	3.01E-06
0.468353	-0.0146937	-0.107664	1.09E-06	2.86E-06	2.71E-06
0.468057	-0.0162603	-0.107155	1.07E-06	2.78E-06	3.12E-06
0.467847	-0.0178057	-0.107034	1.01E-06	3.35E-06	3.63E-06
0.485926	-0.0105641	-0.113842	6.35E-07	8.31E-07	3.45E-06
0.485851	-0.0120514	-0.11431	5.20E-07	1.08E-06	3.35E-06
0.485661	-0.0135845	-0.114291	6.25E-07	2.12E-06	2.53E-06
0.485463	-0.0151274	-0.114171	6.66E-07	2.37E-06	3.72E-06
0.485227	-0.0166775	-0.113956	5.33E-07	2.68E-06	2.57E-06
0.484807	-0.0183117	-0.112964	5.60E-07	3.01E-06	2.98E-06
0.484594	-0.019851	-0.112843	7.55E-07	4.22E-06	3.00E-06
0.503093	-0.0124856	-0.120718	2.85E-07	2.12E-06	3.29E-06
0.502723	-0.0141016	-0.119925	3.63E-07	1.92E-06	2.93E-06
0.502411	-0.015688	-0.119423	4.79E-07	1.35E-05	2.57E-06
0.502313	-0.0171948	-0.119791	7.70E-07	2.48E-06	1.52E-06
0.502263	-0.0186849	-0.12035	9.29E-07	3.89E-06	8.79E-07
0.501973	-0.020261	-0.119941	1.87E-06	8.83E-06	1.96E-06
0.520402	-0.014452	-0.127495	4.14E-07	5.77E-06	3.51E-06
0.52018	-0.0160149	-0.127384	5.18E-07	1.89E-05	2.06E-06

0.51966	-0.0176806	-0.126113	9.42E-07	1.20E-05	1.06E-06
0.519827	-0.0190995	-0.127439	1.63E-06	5.81E-06	8.12E-07
0.519406	-0.0207285	-0.126551	2.72E-06	1.37E-05	1.87E-06
0.519382	-0.0222226	-0.127204	3.31E-06	1.53E-05	2.81E-06

Source File Name: beam3lb\_30deg\_fast\_148.8Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 148.8 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0617422	0.0229394	-0.0084412	7.07E-05	3.61E-05	0.00028053
0.0615964	0.0215636	-0.00880869	7.41E-05	2.92E-05	0.000262111
0.0614824	0.0201509	-0.00877738	7.77E-05	2.65E-05	0.000242664
0.0614151	0.0186639	-0.00815103	7.57E-05	2.68E-05	0.000244112
0.0613162	0.0172138	-0.00792039	7.49E-05	2.32E-05	0.000243925
0.0610939	0.0159738	-0.00926962	7.74E-05	2.86E-05	0.000241132
0.061042	0.0144506	-0.00844224	8.17E-05	4.22E-05	0.000255247
0.0759574	0.0219937	-0.00838083	7.35E-05	5.72E-05	0.000558183
0.0758206	0.0206065	-0.00864978	7.55E-05	5.64E-05	0.000543419
0.075658	0.0192828	-0.00931153	8.01E-05	5.43E-05	0.000507449
0.0755546	0.0178325	-0.00908254	8.24E-05	4.81E-05	0.000490057
0.0754655	0.0163723	-0.00865223	7.89E-05	4.09E-05	0.000489999
0.0753224	0.0149965	-0.00901421	7.72E-05	3.80E-05	0.000490363
0.0752203	0.0135617	-0.00877882	8.03E-05	4.48E-05	0.000494972
0.0899683	0.0197944	-0.00962192	0.000104622	7.10E-05	0.000855409
0.0897891	0.01852	-0.0106808	0.00011273	7.10E-05	0.000885942
0.0897147	0.0169958	-0.00985744	0.000113663	7.50E-05	0.00088556
0.0896293	0.0154979	-0.00923054	9.99E-05	6.95E-05	0.000886867
0.0894893	0.0141364	-0.00959138	9.39E-05	6.52E-05	0.000886113
0.0894043	0.0126405	-0.00896121	9.76E-05	6.71E-05	0.000895548
0.104121	0.0190861	-0.0114315	0.000158291	9.25E-05	0.00136506
0.103987	0.0176974	-0.0117001	0.000154621	9.77E-05	0.00136451
0.103906	0.0161615	-0.0107774	0.00014881	0.000106884	0.00136676
0.103808	0.0146901	-0.0102479	0.000140364	0.000115356	0.00137037
0.103669	0.0133143	-0.010611	0.000136851	0.000113642	0.00137607
0.103544	0.0119022	-0.010675	0.000143971	0.000116906	0.00138121
0.118321	0.0183935	-0.0133839	0.00021663	0.000124035	0.00186394
0.118228	0.016856	-0.0124629	0.000209477	0.000126239	0.00186571
0.118094	0.0154668	-0.0127304	0.000205482	0.000132445	0.00186743
0.117991	0.0139686	-0.0121036	0.000201336	0.000137931	0.00187003
0.117851	0.0126035	-0.0125666	0.000203976	0.000143598	0.00187383
0.117742	0.0111308	-0.012135	0.000206819	0.000146023	0.00187866
0.132575	0.0176287	-0.014884	0.000266461	0.000138908	0.00232453
0.132467	0.0161032	-0.0140624	0.000262267	0.000141572	0.00233068
0.132348	0.0146402	-0.0137351	0.000254341	0.000144402	0.00233543

0.132227	0.0132039	-0.0135038	0.000255242	0.000150819	0.00234297
0.132095	0.0118139	-0.0137689	0.000255786	0.000151264	0.00235288
0.13198	0.0103549	-0.0133359	0.000256912	0.000153265	0.00235227
0.146883	0.016844	-0.0161261	0.000318447	0.000144679	0.00271463
0.146748	0.0154883	-0.0166943	0.000316781	0.000150092	0.00272118
0.146637	0.0138788	-0.0151764	0.000316054	0.000152741	0.00272657
0.146497	0.0125828	-0.0162379	0.000318104	0.000156472	0.00273139
0.146372	0.0111311	-0.0160072	0.000318104	0.000158725	0.00273739
0.146247	0.00969401	-0.0157733	0.000317769	0.000156225	0.00273787
0.161227	0.016122	-0.0180053	0.000372013	0.000149319	0.00299602
0.161096	0.0147039	-0.0180778	0.000370879	0.000154783	0.00300836
0.160966	0.0132978	-0.0182481	0.000373158	0.000157903	0.0030171
0.160836	0.0119033	-0.0185161	0.000374759	0.000161951	0.003027
0.160706	0.0104262	-0.0180875	0.000376374	0.000163359	0.00303225
0.160576	0.00898737	-0.0178542	0.000376227	0.000163073	0.00303012
0.175643	0.0156099	-0.0215101	0.000410818	0.000140687	0.00314176
0.175502	0.0140922	-0.0207893	0.000412133	0.000145427	0.0031563
0.175365	0.0126098	-0.0204656	0.000413176	0.000148394	0.00316917
0.175227	0.0111187	-0.01994	0.000417426	0.000160935	0.00318377
0.175104	0.00979238	-0.0208029	0.000418954	0.000159933	0.00319185
0.174967	0.00831636	-0.0202724	0.000418914	0.000159203	0.00318855
0.190117	0.0148908	-0.0234663	0.000419067	0.000120931	0.00312321
0.189963	0.0134319	-0.0232428	0.000421177	0.000121134	0.00313308
0.189817	0.0119375	-0.0227197	0.000424337	0.000126202	0.00314393
0.189695	0.0105732	-0.023287	0.000428074	0.000140332	0.00316199
0.189554	0.00910344	-0.0229592	0.000429869	0.000138974	0.00317652
0.189427	0.00771506	-0.0233249	0.000427511	0.000136143	0.00317803
0.204651	0.0142581	-0.0261543	0.000394473	9.98E-05	0.00293973
0.204503	0.0127837	-0.0258323	0.000397333	0.00010289	0.00294978
0.204365	0.0113455	-0.0258064	0.000396978	0.00010458	0.00296436
0.204218	0.00987265	-0.0254811	0.000401086	0.000117776	0.00297822
0.204077	0.00842372	-0.0253526	0.000404137	0.000116238	0.00299352
0.203977	0.00712637	-0.0264125	0.00038196	0.000110919	0.00289484
0.219314	0.0137439	-0.0298695	0.00032829	7.40E-05	0.00258947
0.219155	0.0122898	-0.0297476	0.000328826	7.81E-05	0.00259863
0.219006	0.0108238	-0.0295242	0.000330874	8.00E-05	0.00261745
0.218844	0.00932378	-0.0290016	0.000335891	8.29E-05	0.00263464
0.218712	0.00790522	-0.0291719	0.000329279	7.12E-05	0.00256961
0.218537	0.00638711	-0.0283465	0.000292143	6.54E-05	0.00241309
0.233856	0.0116527	-0.0325056	0.000251874	5.33E-05	0.00218327
0.23373	0.0102413	-0.0327792	0.000235386	5.10E-05	0.00211349
0.23356	0.00873777	-0.0322578	0.000238841	4.56E-05	0.00212648
0.233406	0.00726962	-0.0320323	0.0002414	3.58E-05	0.00214309
0.233308	0.00592893	-0.0327955	0.000219869	3.53E-05	0.00206937
0.233154	0.00446106	-0.0325669	0.000208991	3.66E-05	0.00190604
0.248678	0.0110845	-0.0358908	9.40E-05	1.82E-05	0.00144287
0.248505	0.00958808	-0.0354715	9.17E-05	1.87E-05	0.00145553
0.248414	0.00822956	-0.03624	8.24E-05	1.50E-05	0.00147136
0.248249	0.00675955	-0.035915	8.34E-05	5.30E-06	0.00149386
0.24815	0.00538811	-0.0365814	7.18E-05	7.01E-06	0.00138209
0.247971	0.00388248	-0.0360565	4.44E-05	4.44E-06	0.00113565
0.263491	0.00915416	-0.039977	7.73E-05	1.48E-05	0.000802051

0.263311	0.00765354	-0.0395576	0.000108927	1.88E-05	0.000686664
0.263211	0.00628035	-0.0401254	0.000105026	1.88E-05	0.000711438
0.262985	0.00471424	-0.0391083	0.000108552	1.83E-05	0.000732297
0.262885	0.00334935	-0.039874	0.000107576	1.90E-05	0.000617146
0.262736	0.00188079	-0.039846	0.000117213	1.82E-05	0.000596613
0.278597	0.00871346	-0.044611	0.000361413	5.47E-05	0.000191043
0.278455	0.00726339	-0.0446881	0.000360646	5.40E-05	0.000187494
0.278265	0.005784	-0.0443672	0.000348989	5.19E-05	0.000165912
0.278069	0.0042683	-0.0438472	0.000347612	5.09E-05	0.000142138
0.277989	0.00289582	-0.0446125	0.000345867	4.85E-05	0.0001285
0.277714	0.00128407	-0.043198	0.000439062	4.92E-05	0.000263966
0.293566	0.00670116	-0.0483617	0.000575522	7.75E-05	0.000935011
0.293394	0.00522714	-0.0481401	0.000612783	8.23E-05	0.00107102
0.29326	0.00378321	-0.0483141	0.00061258	7.96E-05	0.00105451
0.293026	0.00223079	-0.0474974	0.000612549	7.28E-05	0.00103784
0.292853	0.000744685	-0.0472725	0.000660653	7.06E-05	0.00102031
0.292818	-0.000592079	-0.048431	0.000748088	7.30E-05	0.00115973
0.308949	0.0062892	-0.0534426	0.000912644	0.000105135	0.0020025
0.30866	0.00469902	-0.0522349	0.000916097	0.000107062	0.00199727
0.308634	0.00336948	-0.0534982	0.000915122	0.000103432	0.00198804
0.308445	0.00187897	-0.0531763	0.000914093	9.80E-05	0.00196688
0.308266	0.000385587	-0.0529531	0.000903038	9.48E-05	0.0019468
0.308109	-0.00108604	-0.052926	0.00093621	9.41E-05	0.00192449
0.307886	-0.00261998	-0.0523042	0.000945543	9.40E-05	0.00206402
0.324223	0.00436688	-0.0580314	0.00115215	0.00011943	0.00272663
0.324052	0.00287681	-0.057912	0.00119553	0.000120394	0.00286213
0.323831	0.00134457	-0.0573962	0.0011887	0.000115265	0.00283903
0.323672	-0.000133589	-0.0573721	0.00117173	0.000116714	0.00282073
0.323403	-0.00169106	-0.0564564	0.00115863	0.000113355	0.0029277
0.32339	-0.00304364	-0.0576136	0.00124513	0.00011703	0.00327155
0.339554	0.00234287	-0.0621524	0.00140803	0.000129499	0.00350512
0.339512	0.000967338	-0.0630167	0.00145038	0.000130546	0.00361585
0.339244	-0.000602304	-0.0622058	0.00143602	0.000128933	0.00360822
0.339055	-0.00210783	-0.0619845	0.00142252	0.000126575	0.0035891
0.338866	-0.00359813	-0.0617599	0.00145771	0.000124871	0.00379258
0.338783	-0.0050211	-0.0623241	0.00153508	0.000120389	0.0039856
0.355091	0.000400512	-0.0670833	0.0016318	0.000131338	0.00416768
0.354941	-0.00106668	-0.0671591	0.001667	0.000128765	0.00426707
0.354776	-0.00255871	-0.0671366	0.00166068	0.000120127	0.00424623
0.354682	-0.00398503	-0.067603	0.00165954	0.000120373	0.00420628
0.354431	-0.00553742	-0.0669866	0.00169628	0.000116855	0.00428773
0.354294	-0.00699404	-0.0671545	0.00169673	0.000117586	0.00429529
0.371046	1.90E-05	-0.0728382	0.00185785	0.000124967	0.00473914
0.3708	-0.00153288	-0.0723277	0.00185945	0.000120939	0.00473989
0.370833	-0.0028855	-0.0735827	0.00185494	0.000114172	0.00472107
0.370496	-0.00448244	-0.0724777	0.00184865	0.000111799	0.00468845
0.370327	-0.00598179	-0.0724536	0.00185014	0.000114387	0.00467084
0.370251	-0.00740701	-0.0730161	0.00186891	0.000106418	0.00470236
0.386968	-0.00187991	-0.0785901	0.00195435	0.000115336	0.00494136
0.386828	-0.00336478	-0.0786652	0.00197032	0.000109944	0.00497346
0.386624	-0.00487851	-0.0784468	0.001967	0.000102485	0.00495271
0.386452	-0.00638657	-0.0784245	0.00196732	0.000103577	0.00493958

0.386347	-0.0078405	-0.0787916	0.0019647	9.29E-05	0.00491913
0.386093	-0.00938202	-0.0782738	0.00195773	7.37E-05	0.00487057
0.4029	-0.00387118	-0.0835688	0.00199036	8.80E-05	0.00497968
0.402762	-0.00535282	-0.0837442	0.00199336	7.15E-05	0.00496634
0.402552	-0.00687377	-0.0835262	0.00199299	6.01E-05	0.004936
0.402484	-0.00831657	-0.0840903	0.00198543	5.88E-05	0.00492486
0.402327	-0.00980826	-0.084163	0.00197468	4.66E-05	0.00486969
0.401852	-0.0114852	-0.082472	0.0019493	3.67E-05	0.00479879
0.419128	-0.00578735	-0.0895425	0.00195545	4.31E-05	0.0047835
0.418913	-0.00731694	-0.0893268	0.00195062	4.69E-05	0.00472393
0.41868	-0.00885544	-0.0890117	0.00195045	4.86E-05	0.00471201
0.418521	-0.0103551	-0.089086	0.00194097	4.90E-05	0.00470467
0.418381	-0.0118453	-0.0892565	0.00190649	1.84E-05	0.00465311
0.418315	-0.0132836	-0.0898152	0.00189561	1.45E-05	0.00464065
0.435763	-0.00615928	-0.0959324	0.00182261	4.20E-05	0.00433466
0.435504	-0.00771756	-0.095524	0.00183008	6.46E-05	0.00432688
0.435363	-0.00921774	-0.0956994	0.00184062	8.17E-05	0.00433041
0.434985	-0.0108308	-0.0947022	0.00182013	5.91E-05	0.00429913
0.434884	-0.0122964	-0.0950678	0.0017847	1.13E-05	0.00427943
0.43486	-0.0137409	-0.095824	0.0017373	4.09E-06	0.0041664
0.452116	-0.00818609	-0.101144	0.00166522	4.49E-05	0.00382536
0.452141	-0.00962025	-0.1021	0.00163842	5.96E-05	0.00370844
0.451542	-0.0113201	-0.100132	0.00163087	8.10E-05	0.00369688
0.451518	-0.0127835	-0.100789	0.00158855	5.89E-06	0.00366451
0.451521	-0.0142288	-0.101643	0.00157965	1.37E-05	0.00364841
0.451233	-0.0157863	-0.10113	0.00151401	4.51E-05	0.00351006
0.468979	-0.0100824	-0.108016	0.0014137	1.77E-05	0.0030828
0.468508	-0.0117254	-0.106734	0.00135133	3.52E-05	0.00294667
0.468518	-0.0131804	-0.107589	0.00132397	3.84E-05	0.00291764
0.468353	-0.0146937	-0.107664	0.00129906	7.62E-05	0.00287136
0.468057	-0.0162603	-0.107155	0.00128628	4.34E-05	0.00285658
0.467847	-0.0178057	-0.107034	0.00122773	9.48E-05	0.00272366
0.485926	-0.0105641	-0.113842	0.00102819	8.44E-05	0.00209853
0.485851	-0.0120514	-0.11431	0.0010257	4.18E-05	0.00210474
0.485661	-0.0135845	-0.114291	0.00100749	7.29E-05	0.00208497
0.485463	-0.0151274	-0.114171	0.000996053	5.76E-05	0.00201669
0.485227	-0.0166775	-0.113956	0.0009877	4.73E-05	0.002037
0.484807	-0.0183117	-0.112964	0.000979767	4.29E-05	0.00201216
0.484594	-0.019851	-0.112843	0.000925388	4.35E-05	0.00188839
0.503093	-0.0124856	-0.120718	0.000819142	7.11E-05	0.00144076
0.502723	-0.0141016	-0.119925	0.000771349	6.24E-05	0.00126345
0.502411	-0.015688	-0.119423	0.000703026	6.16E-05	0.00117877
0.502313	-0.0171948	-0.119791	0.000680148	6.06E-05	0.00117727
0.502263	-0.0186849	-0.12035	0.000620566	3.18E-05	0.0010337
0.501973	-0.020261	-0.119941	0.000516224	7.58E-05	0.000794853
0.520402	-0.014452	-0.127495	0.000656131	6.02E-05	0.000882322
0.52018	-0.0160149	-0.127384	0.000512199	4.90E-05	0.000659351
0.51966	-0.0176806	-0.126113	0.000428038	4.56E-05	0.000653045
0.519827	-0.0190995	-0.127439	0.000420275	2.97E-05	0.00058377
0.519406	-0.0207285	-0.126551	0.000352131	8.77E-05	0.000424882
0.519382	-0.0222226	-0.127204	0.000340866	0.000145053	0.000403588

Source File Name: beam3lb\_neg15deg\_fast\_66.88Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 66.88 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0569227	0.0173992	-0.00785436	1.69E-05	1.38E-05	2.52E-06
0.0567683	0.0158982	-0.00775792	1.72E-05	1.30E-05	2.64E-06
0.0566395	0.014118	-0.00861976	1.74E-05	1.12E-05	2.92E-06
0.0564807	0.0126424	-0.00842301	1.68E-05	1.21E-05	3.14E-06
0.0563842	0.0107221	-0.00976022	1.75E-05	1.31E-05	3.10E-06
0.0561617	0.00961127	-0.00831356	2.15E-05	2.08E-05	3.52E-06
0.0560127	0.00804088	-0.00839616	2.45E-05	3.56E-05	6.28E-06
0.0711738	0.0136548	-0.00831102	1.65E-05	1.58E-05	4.65E-06
0.0710695	0.011909	-0.00907696	1.69E-05	1.46E-05	5.45E-06
0.070867	0.010582	-0.00829981	1.73E-05	1.66E-05	5.58E-06
0.0707241	0.00901078	-0.00838508	1.65E-05	1.53E-05	5.59E-06
0.0705869	0.00738417	-0.00876471	1.58E-05	1.64E-05	6.10E-06
0.0703713	0.00619431	-0.0075012	1.29E-05	2.43E-05	6.20E-06
0.0856788	0.0114062	-0.00888613	1.52E-05	2.12E-05	9.68E-06
0.0853822	0.0104567	-0.00676562	1.64E-05	2.14E-05	9.89E-06
0.0853091	0.00861401	-0.00781223	1.72E-05	2.31E-05	1.00E-05
0.0851162	0.00724628	-0.00722899	1.46E-05	2.23E-05	9.90E-06
0.0850504	0.00538509	-0.00837034	1.39E-05	2.04E-05	1.01E-05
0.084862	0.00403047	-0.00768267	1.31E-05	2.20E-05	1.04E-05
0.100024	0.00996901	-0.006501	1.66E-05	2.30E-05	1.66E-05
0.0998649	0.00851797	-0.00620758	2.03E-05	2.25E-05	1.68E-05
0.0997965	0.0066736	-0.00725298	1.60E-05	2.56E-05	2.09E-05
0.0996499	0.00515385	-0.00714384	1.33E-05	2.69E-05	1.56E-05
0.0994448	0.00386692	-0.00626958	1.21E-05	2.79E-05	1.52E-05
0.0994201	0.00185157	-0.0078289	1.38E-05	2.82E-05	1.48E-05
0.114577	0.00796509	-0.00615468	2.19E-05	2.50E-05	2.52E-05
0.1144443	0.00641769	-0.00614415	2.41E-05	2.15E-05	2.93E-05
0.114301	0.00489729	-0.00603587	2.16E-05	2.71E-05	3.34E-05
0.114101	0.00351575	-0.00544857	1.52E-05	2.70E-05	2.76E-05
0.114107	0.00153816	-0.00696717	1.45E-05	2.85E-05	2.32E-05
0.113873	0.000267096	-0.00599332	1.40E-05	2.94E-05	2.28E-05
0.129086	0.00626238	-0.00467162	1.72E-05	2.73E-05	3.65E-05
0.128917	0.00482391	-0.0042773	2.05E-05	2.77E-05	3.43E-05
0.128834	0.00311161	-0.00483913	1.74E-05	2.42E-05	3.83E-05
0.128714	0.00153461	-0.00491899	1.70E-05	2.82E-05	3.34E-05
0.128556	8.09E-05	-0.00461815	1.59E-05	3.14E-05	3.18E-05
0.128421	-0.00150843	-0.00469224	1.40E-05	2.78E-05	3.53E-05
0.143691	0.00442551	-0.00368765	1.97E-05	3.12E-05	4.86E-05
0.143563	0.00283645	-0.0037683	1.95E-05	3.14E-05	4.61E-05
0.143516	0.00109223	-0.00442124	1.87E-05	3.13E-05	4.51E-05
0.143335	-0.000320414	-0.00392677	1.87E-05	3.48E-05	4.28E-05

0.143219	-0.00192649	-0.00410021	1.81E-05	3.65E-05	4.35E-05
0.143016	-0.00328241	-0.00341151	1.81E-05	3.85E-05	4.74E-05
0.158131	0.00119514	-0.00203119	2.19E-05	3.37E-05	5.54E-05
0.157987	-0.0003006	-0.00182412	2.16E-05	3.70E-05	5.48E-05
0.157902	-0.00196263	-0.00218865	1.90E-05	6.33E-05	5.12E-05
0.15772	-0.00337486	-0.0016921	1.99E-05	3.98E-05	5.26E-05
0.157635	-0.00501157	-0.00195529	1.77E-05	3.59E-05	5.62E-05
0.172891	-0.000788349	-0.00145267	3.74E-05	7.73E-05	5.22E-05
0.172587	-0.00195125	-0.000103254	2.25E-05	0.000100099	5.65E-05
0.172498	-0.0035869	-0.000370657	2.10E-05	9.75E-05	5.77E-05
0.172409	-0.00519665	-0.000538737	1.93E-05	6.67E-05	6.20E-05
0.172426	-0.00703341	-0.00146456	1.84E-05	3.76E-05	6.75E-05
0.187421	-0.00222479	0.00101309	5.22E-05	0.000148265	4.71E-05
0.187441	-0.00403146	0.000178977	3.33E-05	0.000128361	5.49E-05
0.187246	-0.00543247	0.000669224	1.98E-05	9.80E-05	6.63E-05
0.187132	-0.00700091	0.000696508	1.94E-05	4.20E-05	7.62E-05
0.187078	-0.00867044	0.000343121	1.85E-05	4.10E-05	8.15E-05
0.202225	-0.00411699	0.00194661	3.61E-05	8.21E-05	7.67E-05
0.202023	-0.00550488	0.00253611	2.01E-05	7.21E-05	8.37E-05
0.201935	-0.00711685	0.00236783	2.00E-05	4.52E-05	8.71E-05
0.20178	-0.00858886	0.00267699	2.01E-05	4.56E-05	8.65E-05
0.201797	-0.0103869	0.00195148	1.96E-05	4.51E-05	8.93E-05
0.201597	-0.0118013	0.00245112	1.86E-05	4.49E-05	9.08E-05
0.216671	-0.00706992	0.00459223	2.10E-05	4.81E-05	9.77E-05
0.216585	-0.00865612	0.00452294	2.11E-05	4.94E-05	9.90E-05
0.216487	-0.0102419	0.00445305	2.15E-05	5.12E-05	9.96E-05
0.216331	-0.0117279	0.00476864	2.13E-05	5.28E-05	9.80E-05
0.216583	-0.0138898	0.00281969	2.00E-05	5.32E-05	0.000100107
0.231273	-0.00852939	0.00700993	2.20E-05	5.27E-05	0.000105203
0.231199	-0.0101443	0.00684567	2.19E-05	5.35E-05	0.000105831
0.231082	-0.0116752	0.00696854	2.22E-05	5.47E-05	0.000108002
0.230878	-0.0131034	0.00747037	2.18E-05	5.58E-05	0.000108815
0.23105	-0.0150953	0.00609242	2.05E-05	5.55E-05	0.000107571
0.230659	-0.016207	0.00763496	2.03E-05	5.53E-05	0.000107961
0.24594	-0.0117564	0.00878349	2.24E-05	5.66E-05	0.00011142
0.245794	-0.0132595	0.00899896	2.23E-05	5.79E-05	0.000115056
0.245833	-0.0150356	0.00837856	2.20E-05	5.73E-05	0.000116167
0.245571	-0.0163661	0.00916058	2.13E-05	5.69E-05	0.000116407
0.245628	-0.0181734	0.00845082	2.09E-05	5.74E-05	0.000117228
0.260428	-0.0130029	0.0119208	2.31E-05	6.00E-05	0.000120576
0.260523	-0.0148239	0.0111112	2.31E-05	6.03E-05	0.000121687
0.260411	-0.0163713	0.011243	2.29E-05	5.95E-05	0.000121617
0.260246	-0.0178471	0.0115569	2.21E-05	5.97E-05	0.000120766
0.260398	-0.0197732	0.0104774	2.16E-05	5.99E-05	0.000121185
0.260335	-0.0213962	0.0103282	2.11E-05	6.08E-05	0.000121533
0.275255	-0.0146876	0.0136415	2.32E-05	6.30E-05	0.00012721
0.275213	-0.0163098	0.0134896	2.31E-05	6.34E-05	0.000127599
0.275255	-0.0180617	0.0129704	2.29E-05	6.32E-05	0.000127054
0.275005	-0.0194233	0.0136583	2.24E-05	6.36E-05	0.000127109
0.275134	-0.0212812	0.0127672	2.19E-05	6.38E-05	0.000125749
0.274902	-0.0226846	0.0133692	2.15E-05	6.36E-05	0.000124551
0.274901	-0.0243693	0.0130413	2.13E-05	6.35E-05	0.000123989

0.289471	-0.0172245	0.017713	2.29E-05	6.40E-05	0.000129155
0.28974	-0.0192664	0.0162645	2.28E-05	6.38E-05	0.000128984
0.289499	-0.0206291	0.0169553	2.22E-05	6.46E-05	0.000128492
0.289735	-0.0226057	0.0156975	2.19E-05	6.54E-05	0.000127778
0.289341	-0.023804	0.0169493	2.17E-05	6.48E-05	0.000126292
0.289508	-0.0256962	0.0159747	2.15E-05	6.58E-05	0.000125402
0.304341	-0.0205824	0.0191689	2.22E-05	6.50E-05	0.000129199
0.304392	-0.0223386	0.0186561	2.18E-05	6.60E-05	0.000129446
0.304266	-0.0238492	0.018886	2.16E-05	6.68E-05	0.000129796
0.304139	-0.0253598	0.0191176	2.18E-05	6.67E-05	0.000128985
0.304286	-0.0272249	0.0182378	2.14E-05	6.73E-05	0.000126745
0.304157	-0.0287496	0.0184772	2.08E-05	6.79E-05	0.000125223
0.319062	-0.0237225	0.0213613	2.16E-05	6.71E-05	0.000129358
0.318799	-0.0250869	0.0220501	2.16E-05	6.82E-05	0.000130021
0.318648	-0.026582	0.022379	2.13E-05	6.83E-05	0.00012954
0.318773	-0.0283904	0.0216923	2.08E-05	6.89E-05	0.0001264
0.31871	-0.0299917	0.0216492	2.02E-05	6.92E-05	0.000124751
0.318608	-0.0315344	0.021796	2.01E-05	6.89E-05	0.000123789
0.333427	-0.0264343	0.0249263	2.12E-05	6.87E-05	0.000129463
0.333449	-0.028125	0.024606	2.10E-05	6.90E-05	0.00012869
0.333587	-0.0299365	0.0239245	2.04E-05	6.99E-05	0.000125644
0.333489	-0.0314815	0.0240715	1.99E-05	7.00E-05	0.000123749
0.333326	-0.032966	0.0244	2.00E-05	6.96E-05	0.000122428
0.333567	-0.0349023	0.0233584	1.95E-05	6.90E-05	0.000122
0.348064	-0.0294398	0.0275534	2.03E-05	7.00E-05	0.000127463
0.347833	-0.0308364	0.0281575	1.98E-05	7.09E-05	0.000125056
0.347862	-0.0325307	0.0278448	1.94E-05	7.08E-05	0.000122428
0.347931	-0.034257	0.027447	1.93E-05	7.04E-05	0.000121262
0.347698	-0.0356529	0.0280564	1.90E-05	6.96E-05	0.000120227
0.347861	-0.0375014	0.0272934	1.83E-05	6.95E-05	0.000118306
0.36231	-0.0320119	0.0315404	1.89E-05	6.99E-05	0.000122415
0.362645	-0.0340087	0.030325	1.84E-05	6.98E-05	0.000120211
0.362397	-0.0354062	0.0309287	1.85E-05	6.96E-05	0.000118716
0.362278	-0.0369111	0.0311704	1.80E-05	6.96E-05	0.000116127
0.362625	-0.0389442	0.0298672	1.75E-05	6.99E-05	0.000114486
0.36236	-0.0403116	0.0305714	1.70E-05	7.06E-05	0.000112403
0.376935	-0.0349848	0.0343274	1.70E-05	6.84E-05	0.000114988
0.377041	-0.036732	0.0338394	1.66E-05	6.81E-05	0.000112657
0.376921	-0.0382522	0.0340866	1.65E-05	6.84E-05	0.000110639
0.376937	-0.0399107	0.0338746	1.63E-05	6.95E-05	0.000109307
0.376993	-0.0416144	0.0335823	1.62E-05	7.12E-05	0.000108595
0.377225	-0.043503	0.0327491	1.58E-05	7.17E-05	0.000104536
0.391576	-0.0379598	0.037097	1.50E-05	6.76E-05	0.000106016
0.39146	-0.0394689	0.0373422	1.46E-05	6.76E-05	0.000103192
0.391452	-0.0410993	0.0372239	1.48E-05	6.83E-05	0.000103025
0.391149	-0.0424384	0.0380175	1.48E-05	6.99E-05	0.000102715
0.391569	-0.0444988	0.0366412	1.49E-05	7.07E-05	9.94E-05
0.39258	-0.0471616	0.0335644	1.41E-05	7.07E-05	9.38E-05
0.40587	-0.0405737	0.0409326	1.32E-05	6.65E-05	9.71E-05
0.405679	-0.0420231	0.0413562	1.28E-05	6.60E-05	9.54E-05
0.405848	-0.0438091	0.0407986	1.28E-05	6.61E-05	9.46E-05
0.406002	-0.0456097	0.0402427	1.28E-05	6.59E-05	9.17E-05

0.405948	-0.0471837	0.0403177	1.27E-05	6.82E-05	8.74E-05
0.409632	-0.05241	0.0298152	1.20E-05	6.81E-05	8.66E-05
0.42038	-0.0434143	0.0441159	1.15E-05	6.29E-05	8.73E-05
0.420265	-0.0449278	0.0443682	1.12E-05	6.11E-05	8.47E-05
0.420531	-0.04681	0.0435457	1.14E-05	6.05E-05	8.20E-05
0.420513	-0.0484173	0.0435341	1.08E-05	6.33E-05	8.10E-05
0.420396	-0.0499322	0.0437922	9.94E-06	6.33E-05	7.74E-05
0.434989	-0.0463203	0.0471074	9.12E-06	5.80E-05	7.52E-05
0.434591	-0.0475901	0.0480698	8.42E-06	5.55E-05	7.13E-05
0.434782	-0.049384	0.0475277	8.40E-06	5.63E-05	7.08E-05
0.43469	-0.0509181	0.0476898	8.29E-06	5.72E-05	6.89E-05
0.434709	-0.0525592	0.0475961	8.14E-06	5.73E-05	6.27E-05
0.449322	-0.0489841	0.0507811	6.73E-06	5.37E-05	6.33E-05
0.449103	-0.0504103	0.0513062	6.39E-06	5.28E-05	6.09E-05
0.449234	-0.0521464	0.0509489	6.70E-06	5.26E-05	5.91E-05
0.449179	-0.0537146	0.0510266	6.81E-06	5.29E-05	5.43E-05
0.448959	-0.0551401	0.0515568	6.66E-06	5.03E-05	5.00E-05
0.463572	-0.0515723	0.0547054	5.09E-06	4.88E-05	5.19E-05
0.463447	-0.0530934	0.0549636	4.98E-06	4.77E-05	4.86E-05
0.46366	-0.0548823	0.0544337	5.15E-06	4.76E-05	4.72E-05
0.463715	-0.0565477	0.0542523	5.44E-06	4.64E-05	4.47E-05
0.46389	-0.0583085	0.0538147	5.33E-06	4.36E-05	4.09E-05
0.477848	-0.0541952	0.0585078	3.77E-06	4.27E-05	4.00E-05
0.477837	-0.0557995	0.0585033	3.76E-06	4.18E-05	3.75E-05
0.47806	-0.0575926	0.0579815	4.16E-06	4.17E-05	3.66E-05
0.478418	-0.0595132	0.0571071	4.44E-06	4.03E-05	3.45E-05
0.477639	-0.0604582	0.0589487	4.33E-06	3.75E-05	3.00E-05
0.492731	-0.0573232	0.0608851	2.58E-06	3.57E-05	2.90E-05
0.492087	-0.0583995	0.0623701	2.69E-06	3.47E-05	2.69E-05
0.49246	-0.0603222	0.0615033	3.10E-06	3.42E-05	2.60E-05
0.492539	-0.0619952	0.0613396	3.42E-06	3.29E-05	2.31E-05
0.492303	-0.0634022	0.0618634	3.78E-06	3.05E-05	2.06E-05
0.506834	-0.0598159	0.0650718	1.64E-06	3.00E-05	2.12E-05
0.506726	-0.0613205	0.065339	1.85E-06	2.86E-05	1.88E-05
0.5068	-0.0629962	0.0651741	2.61E-06	2.74E-05	1.72E-05
0.506495	-0.0643426	0.0658767	3.39E-06	2.62E-05	1.62E-05
0.506697	-0.0661147	0.065462	3.67E-06	2.61E-05	1.61E-05

Source File Name: beam3lb\_neg15deg\_fast\_150Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 150.0 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0569227	0.0173992	-0.00785436	2.91E-05	3.91E-05	0.000118031
0.0567683	0.0158982	-0.00775792	2.96E-05	4.37E-05	0.000110279
0.0566395	0.014118	-0.00861976	3.47E-05	4.94E-05	0.000113216

0.0564807	0.0126424	-0.00842301	3.84E-05	3.72E-05	0.000113694
0.0563842	0.0107221	-0.00976022	3.60E-05	3.24E-05	0.000117901
0.0561617	0.00961127	-0.00831356	4.73E-05	2.68E-05	0.000127712
0.0560127	0.00804088	-0.00839616	7.81E-05	6.00E-05	0.000140407
0.0711738	0.0136548	-0.00831102	3.63E-05	3.90E-05	0.000239895
0.0710695	0.011909	-0.00907696	4.10E-05	4.20E-05	0.000268897
0.070867	0.010582	-0.00829981	4.37E-05	2.92E-05	0.000268349
0.0707241	0.00901078	-0.00838508	3.84E-05	4.10E-05	0.000270338
0.0705869	0.00738417	-0.00876471	4.10E-05	4.25E-05	0.000275853
0.0703713	0.00619431	-0.0075012	5.53E-05	3.27E-05	0.000279783
0.0856788	0.0114062	-0.00888613	6.72E-05	3.97E-05	0.000529468
0.0853822	0.0104567	-0.00676562	6.36E-05	3.98E-05	0.000523605
0.0853091	0.00861401	-0.00781223	8.69E-05	0.000114044	0.000492482
0.0851162	0.00724628	-0.00722899	8.59E-05	0.00013123	0.000496114
0.0850504	0.00538509	-0.00837034	5.50E-05	0.000103944	0.000536122
0.084862	0.00403047	-0.00768267	8.12E-05	0.000105672	0.000539961
0.100024	0.00996901	-0.006501	0.000108047	2.92E-05	0.000841691
0.0998649	0.00851797	-0.00620758	0.000127973	9.95E-05	0.000792875
0.0997965	0.0066736	-0.00725298	0.000172984	0.000238142	0.000753301
0.0996499	0.00515385	-0.00714384	0.000167549	0.00027085	0.000755307
0.0994448	0.00386692	-0.00626958	0.000140086	0.000197778	0.000833745
0.0994201	0.00185157	-0.00788289	0.00013702	0.000146859	0.000862143
0.114577	0.00796509	-0.00615468	0.000163834	8.20E-05	0.001178
0.1144443	0.00641769	-0.00614415	0.000137929	2.35E-05	0.0011959
0.114301	0.00489729	-0.00603587	0.000138567	8.59E-05	0.00117554
0.114101	0.00351575	-0.00544857	0.00014352	7.93E-05	0.00118836
0.114107	0.00153816	-0.00696717	0.00013003	4.33E-05	0.00121095
0.113873	0.000267096	-0.00599332	0.000162691	4.83E-05	0.00120687
0.129086	0.00626238	-0.00467162	0.000277013	0.000261543	0.0014966
0.128917	0.00482391	-0.0042773	0.000298054	0.00031349	0.00143915
0.128834	0.00311161	-0.00483913	0.000177778	6.64E-05	0.00151988
0.128714	0.00153461	-0.00491899	0.000253427	0.000261962	0.00147385
0.128556	8.09E-05	-0.00461815	0.000262	0.00026063	0.00145931
0.128421	-0.00150843	-0.00469224	0.000282738	0.000304797	0.00142324
0.143691	0.00442551	-0.00368765	0.000503465	0.00073956	0.00160479
0.143563	0.00283645	-0.0037683	0.000501824	0.000734154	0.00154974
0.143516	0.00109223	-0.00442124	0.000481021	0.000721531	0.00151331
0.143335	-0.000320414	-0.00392677	0.000625484	0.00105692	0.00147261
0.143219	-0.00192649	-0.00410021	0.000717533	0.00127545	0.00141528
0.143016	-0.00328241	-0.00341151	0.000700304	0.00123396	0.00142513
0.158131	0.00119514	-0.00203119	0.000832693	0.00145296	0.00150614
0.157987	-0.0003006	-0.00182412	0.000799976	0.00137316	0.00154228
0.157902	-0.00196263	-0.00218865	0.000950044	0.0017318	0.00149971
0.157772	-0.00337486	-0.0016921	0.000998509	0.00184057	0.00148986
0.157635	-0.00501157	-0.00195529	0.00101066	0.00186762	0.0014763
0.172891	-0.000788349	-0.00145267	0.00138984	0.00267567	0.00129894
0.172587	-0.00195125	-0.000103254	0.00133291	0.00254354	0.0013502
0.172498	-0.0035869	-0.000370657	0.00112039	0.00206216	0.00148923
0.172409	-0.00519665	-0.000538737	0.00114737	0.00244151	0.0014346
0.172426	-0.00703341	-0.00146456	0.00130941	0.00247567	0.00141487
0.187421	-0.00222479	0.00101309	0.00123076	0.00229431	0.00149074
0.187441	-0.00403146	0.000178977	0.00101384	0.00180247	0.0016115

0.187246	-0.00543247	0.000669224	0.000620947	0.0012499	0.00172756
0.187132	-0.00700091	0.000696508	0.000768269	0.00161031	0.00167737
0.187078	-0.00867044	0.000343121	0.000844037	0.00160775	0.00163296
0.202225	-0.00411699	0.00194661	0.000520587	0.000719606	0.00191303
0.202023	-0.00550488	0.00253611	0.000481308	0.000630036	0.00192965
0.201935	-0.00711685	0.00236783	0.000415947	0.000156128	0.00202626
0.20178	-0.00858886	0.00267699	0.000546046	0.000419075	0.00192788
0.201797	-0.0103869	0.00195148	0.000620826	0.000398683	0.00188897
0.201597	-0.0118013	0.00245112	0.000557827	0.000488394	0.00185287
0.216671	-0.00706992	0.00459223	0.000236191	0.000131939	0.00195581
0.216585	-0.00865612	0.00452294	0.000204609	4.78E-05	0.00191076
0.216487	-0.0102419	0.00445305	0.00034069	4.94E-05	0.00186351
0.216331	-0.0117279	0.00476864	0.00024792	2.39E-05	0.001841
0.216583	-0.0138898	0.00281969	0.000259849	2.99E-05	0.00175012
0.231273	-0.00852939	0.00700993	0.000108348	2.22E-05	0.00166655
0.231199	-0.0101443	0.00684567	0.000117427	9.85E-06	0.00166027
0.231082	-0.0116752	0.00696854	0.000100676	2.32E-05	0.00163871
0.230878	-0.0131034	0.00747037	0.000107562	1.05E-05	0.00167585
0.23105	-0.0150953	0.00609242	0.000131832	1.39E-05	0.00157649
0.230659	-0.016207	0.00763496	0.000136612	1.77E-05	0.00146421
0.24594	-0.0117564	0.00878349	4.66E-05	5.42E-05	0.00140837
0.245794	-0.0132595	0.00899896	3.17E-05	1.10E-05	0.0013769
0.245833	-0.0150356	0.00837856	3.10E-05	1.31E-05	0.00141353
0.245571	-0.0163661	0.00916058	2.32E-05	1.44E-05	0.00130713
0.245628	-0.0181734	0.00845082	1.12E-05	1.33E-05	0.00117142
0.260428	-0.0130029	0.0119208	6.30E-05	0.000151116	0.000936329
0.260523	-0.0148239	0.0111112	6.27E-05	6.68E-05	0.000947299
0.260411	-0.0163713	0.011243	5.85E-05	3.34E-05	0.00098228
0.260246	-0.0178471	0.0115569	5.18E-05	2.94E-05	0.000991652
0.260398	-0.0197732	0.0104774	5.61E-05	2.08E-05	0.00095598
0.260335	-0.0213962	0.0103282	6.24E-05	2.39E-05	0.000875236
0.275255	-0.0146876	0.0136415	0.000158641	0.00013157	0.000447283
0.275213	-0.0163098	0.0134896	0.000155626	6.66E-05	0.000475811
0.275255	-0.0180617	0.0129704	0.000150718	5.78E-05	0.000494407
0.275005	-0.0194233	0.0136583	0.000139705	5.02E-05	0.000517212
0.275134	-0.0212812	0.0127672	0.000141932	4.89E-05	0.000525672
0.274902	-0.0226846	0.0133692	0.00013638	4.85E-05	0.000532905
0.274901	-0.0243693	0.0130413	0.000137735	5.44E-05	0.000538335
0.289471	-0.0172245	0.017713	0.000259145	0.000101835	4.49E-05
0.28974	-0.0192664	0.0162645	0.000281566	9.57E-05	3.02E-05
0.289499	-0.0206291	0.0169553	0.000269704	8.84E-05	2.49E-05
0.289735	-0.0226057	0.0156975	0.000268866	8.77E-05	2.13E-05
0.289341	-0.023804	0.0169493	0.000269659	9.57E-05	2.09E-05
0.289508	-0.0256962	0.0159747	0.000302967	0.000101514	0.000172844
0.304341	-0.0205824	0.0191689	0.000365502	0.000128759	0.000482438
0.304392	-0.0223386	0.0186561	0.000371733	0.000127281	0.000570803
0.304266	-0.0238492	0.018886	0.000374006	0.000133752	0.000566065
0.304139	-0.0253598	0.0191176	0.000376412	0.000132646	0.000557272
0.304286	-0.0272249	0.0182378	0.000391337	0.000130628	0.000630047
0.304157	-0.0287496	0.0184772	0.000438643	0.000136168	0.000804795
0.319062	-0.0237225	0.0213613	0.000461673	0.000159476	0.00101546
0.318799	-0.0250869	0.0220501	0.000485138	0.000167747	0.001103

0.318648	-0.026582	0.022379	0.000487848	0.00017238	0.00109695
0.318773	-0.0283904	0.0216923	0.000482847	0.000173821	0.00108532
0.31871	-0.0299917	0.0216492	0.00050613	0.000168934	0.00116823
0.318608	-0.0315344	0.021796	0.000543179	0.000174395	0.00124556
0.333427	-0.0264343	0.0249263	0.000571908	0.000198608	0.00151199
0.333449	-0.028125	0.024606	0.000592149	0.000211824	0.00159544
0.333587	-0.0299365	0.0239245	0.000587532	0.000225362	0.00159843
0.333489	-0.0314815	0.0240715	0.000580515	0.000220893	0.00158849
0.333326	-0.032966	0.0244	0.000600044	0.000208883	0.00157609
0.333567	-0.0349023	0.0233584	0.00064365	0.000221926	0.00164662
0.348064	-0.0294398	0.0275534	0.00067542	0.000255424	0.00197047
0.347833	-0.0308364	0.0281575	0.000697666	0.000286305	0.0020512
0.347862	-0.0325307	0.0278448	0.000699505	0.000278175	0.00204351
0.347931	-0.034257	0.027447	0.000695235	0.000268114	0.00202784
0.347698	-0.0356529	0.0280564	0.000715415	0.000336969	0.00202589
0.347861	-0.0375014	0.0272934	0.000754525	0.000278571	0.0021441
0.36231	-0.0320119	0.0315404	0.000754249	0.000295921	0.00237649
0.362645	-0.0340087	0.030325	0.000770193	0.00030039	0.00243793
0.362397	-0.0354062	0.0309287	0.000786794	0.000370726	0.00243625
0.362278	-0.0369111	0.0311704	0.000791765	0.000472994	0.00243879
0.362625	-0.0389442	0.0298672	0.000825871	0.00045882	0.00249184
0.36236	-0.0403116	0.0305714	0.000828348	0.000380402	0.00257618
0.376935	-0.0349848	0.0343274	0.000824922	0.000326851	0.0027074
0.377041	-0.036732	0.0338394	0.000856639	0.000352388	0.00276531
0.376921	-0.0382522	0.0340866	0.000869993	0.000518296	0.00277216
0.376937	-0.0399107	0.0338746	0.000885612	0.000556251	0.00276666
0.376993	-0.0416144	0.0335823	0.000875597	0.000528015	0.00278574
0.377225	-0.043503	0.0327491	0.000831436	0.00041991	0.0027705
0.391576	-0.0379598	0.037097	0.000869419	0.000393116	0.00291394
0.39146	-0.0394689	0.0373422	0.00087573	0.000433847	0.00294521
0.391452	-0.0410993	0.0372239	0.000884337	0.000466567	0.00293613
0.391149	-0.0424384	0.0380175	0.000875312	0.000479025	0.00288307
0.391569	-0.0444988	0.0366412	0.00083375	0.000386294	0.00284205
0.39258	-0.0471616	0.0335644	0.000805496	0.000352262	0.00281913
0.40587	-0.0405737	0.0409326	0.000861853	0.00039985	0.00296806
0.405679	-0.0420231	0.0413562	0.000859436	0.000400331	0.00295507
0.405848	-0.0438091	0.0407986	0.000857134	0.000411499	0.00291601
0.406002	-0.0456097	0.0402427	0.00083309	0.000376226	0.00287987
0.405948	-0.0471837	0.0403177	0.000808812	0.000320108	0.00285697
0.409632	-0.05241	0.0298152	0.000799179	0.000316808	0.00280857
0.42038	-0.0434143	0.0441159	0.000824412	0.000346948	0.0029073
0.420265	-0.0449278	0.0443682	0.000814139	0.000362567	0.00286536
0.420531	-0.04681	0.0435457	0.000809562	0.000322631	0.00284187
0.420513	-0.0484173	0.0435341	0.000796919	0.000323508	0.00279761
0.420396	-0.0499322	0.0437922	0.000768126	0.000313713	0.00268781
0.434989	-0.0463203	0.0471074	0.000769705	0.000324698	0.0027536
0.434591	-0.0475901	0.0480698	0.000758287	0.000322373	0.00270865
0.434782	-0.049384	0.0475277	0.000748035	0.000317246	0.00269025
0.43469	-0.0509181	0.0476898	0.000722165	0.000311328	0.00259499
0.434709	-0.0525592	0.0475961	0.000679561	0.000301986	0.00244501
0.449322	-0.0489841	0.0507811	0.00069441	0.000310236	0.00250811
0.449103	-0.0504103	0.0513062	0.000669125	0.000302067	0.00244909

0.449234	-0.0521464	0.0509489	0.000658206	0.000298043	0.00242115
0.449179	-0.0537146	0.0510266	0.000626637	0.000291867	0.00230393
0.448959	-0.0551401	0.0515568	0.000584525	0.000284017	0.00217419
0.463572	-0.0515723	0.0547054	0.000591593	0.000286539	0.00217539
0.463447	-0.0530934	0.0549636	0.000567616	0.000278728	0.00209647
0.46366	-0.0548823	0.0544337	0.000568156	0.000281401	0.00207102
0.463715	-0.0565477	0.0542523	0.000540114	0.000276515	0.00198448
0.46389	-0.0583085	0.0538147	0.000488112	0.000261799	0.00183448
0.477848	-0.0541952	0.0585078	0.000474242	0.000259641	0.00178014
0.477837	-0.0557995	0.0585033	0.000455928	0.000257817	0.00169471
0.47806	-0.0575926	0.0579815	0.000450454	0.00025883	0.00166518
0.478418	-0.0595132	0.0571071	0.000417776	0.000244805	0.00156453
0.477639	-0.0604582	0.0589487	0.000388848	0.000228435	0.00140385
0.492731	-0.0573232	0.0608851	0.000355653	0.000221879	0.00134992
0.492087	-0.0583995	0.0623701	0.000334326	0.000212225	0.00125038
0.49246	-0.0603222	0.0615033	0.000319307	0.000205906	0.00121362
0.492539	-0.0619952	0.0613396	0.000313361	0.000199915	0.00111851
0.492303	-0.0634022	0.0618634	0.000286395	0.000197769	0.00103611
0.506834	-0.0598159	0.0650718	0.000272343	0.000188102	0.00100974
0.506726	-0.0613205	0.065339	0.000246332	0.000178664	0.000893996
0.5068	-0.0629962	0.0651741	0.000231386	0.000181338	0.00086897
0.506495	-0.0643426	0.0658767	0.00021957	0.000183848	0.000844811
0.506697	-0.0661147	0.065462	0.00021971	0.00018547	0.000847297

Source File Name: beam3lb\_neg30deg\_fast\_60H  
 Z  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 60.00 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0685788	0.0181916	-0.00286927	1.86E-06	1.58E-06	1.30E-06
0.0836412	0.0166094	-0.0030387	1.83E-06	1.49E-06	1.55E-06
0.0835434	0.0153833	-0.00236822	1.93E-06	1.69E-06	8.67E-07
0.0684804	0.0169183	-0.00228714	1.89E-06	1.02E-06	1.30E-06
0.0834515	0.0135322	-0.00283605	2.07E-06	6.25E-07	1.52E-06
0.0683762	0.0152471	-0.00239778	2.03E-06	3.30E-07	2.21E-06
0.0987412	0.015019	-0.00325087	1.98E-06	2.29E-06	2.47E-06
0.0986513	0.0134896	-0.00309802	2.31E-06	2.10E-06	1.90E-06
0.0985669	0.011829	-0.00321379	1.80E-06	1.05E-06	2.40E-06
0.113772	0.0123441	-0.00245987	2.45E-06	1.95E-06	2.30E-06
0.113725	0.0101517	-0.00353766	2.00E-06	1.16E-06	3.04E-06
0.113628	0.00886169	-0.0029425	1.88E-06	7.13E-07	3.39E-06
0.0984872	0.00996064	-0.0036702	1.40E-06	7.72E-07	3.02E-06
0.128946	0.0107918	-0.00255624	2.42E-06	1.75E-06	3.02E-06
0.128895	0.00893562	-0.00301952	2.08E-06	2.26E-06	3.55E-06

0.128804	0.00761053	-0.00251883	1.99E-06	1.54E-06	3.96E-06	
0.128737	0.00593242	-0.00262079	2.09E-06	4.40E-07	3.87E-06	
0.113563	0.00700464	-0.00340303	2.08E-06	5.21E-07	3.09E-06	
0.144039	0.00813491	-0.00174914	1.09E-06	2.46E-06	3.59E-06	
0.143973	0.0065675	-0.00168482	1.45E-06	1.34E-06	4.10E-06	
0.143925	0.00479152	-0.00196024	1.44E-06	1.04E-06	4.37E-06	
0.159115	0.00584412	-0.00027431	1.91E-06	6.69E-07	4.24E-06	
0.15909	0.00397052	-0.000722973	2.05E-06	7.75E-07	5.16E-06	
0.159065	0.00210922	-0.00117689	1.80E-06	1.07E-06	4.80E-06	
0.143831	0.00351464	-0.00136863	1.29E-06	7.81E-07	4.25E-06	
0.17434	0.00451817	5.54E-05	2.07E-06	6.46E-07	5.11E-06	
0.174221	0.00342163	0.00100245	1.99E-06	1.37E-06	6.05E-06	
0.174223	0.00146258	0.000375799	1.88E-06	1.18E-06	5.99E-06	
0.17415	2.50E-05	0.000716455	1.95E-06	1.87E-06	5.44E-06	
0.158988	0.000671656	-0.000836795	1.75E-06	1.94E-06	4.70E-06	
0.189384	0.000796108	0.0018939	2.05E-06	2.26E-06	6.91E-06	
0.189315	-0.000641573	0.00223525	2.15E-06	2.45E-06	6.67E-06	
0.189247	-0.00206546	0.00257048	1.99E-06	2.65E-06	7.18E-06	
0.174129	-0.00188742	0.000179925	1.60E-06	2.10E-06	5.71E-06	
0.204487	-0.00132834	0.00372012	2.60E-06	2.79E-06	7.04E-06	
0.204511	-0.00324243	0.00318884	2.41E-06	3.08E-06	7.46E-06	
0.204314	-0.00394508	0.00483488	2.31E-06	3.33E-06	8.08E-06	
0.189278	-0.00414066	0.00178645	1.87E-06	2.58E-06	7.64E-06	
0.219595	-0.00345979	0.00550683	2.49E-06	3.60E-06	8.26E-06	
0.219514	-0.00479996	0.00602617	2.47E-06	3.71E-06	8.20E-06	
0.219523	-0.00656871	0.00576057	2.65E-06	3.17E-06	8.86E-06	
0.204418	-0.00640089	0.0033526	2.41E-06	2.84E-06	7.57E-06	
0.234612	-0.00685488	0.00795669	2.65E-06	3.13E-06	9.16E-06	
0.234512	-0.0080825	0.00864448	3.02E-06	2.44E-06	9.36E-06	
0.219422	-0.00781042	0.00645598	2.70E-06	2.96E-06	9.17E-06	
0.234552	-0.00996522	0.00821953	3.30E-06	2.49E-06	1.01E-05	
0.21944	-0.00962994	0.00610781	2.96E-06	3.62E-06	1.07E-05	
0.249582	-0.0100113	0.0108042	3.35E-06	2.95E-06	1.15E-05	
0.249588	-0.0116973	0.0107278	2.72E-06	2.21E-06	9.85E-06	
0.234527	-0.0115388	0.00830661	3.44E-06	1.97E-06	9.10E-06	
0.264531	-0.0114674	0.0137918	2.48E-06	1.46E-06	8.84E-06	
0.264573	-0.0132388	0.0135391	2.95E-06	3.32E-06	1.14E-05	
0.249487	-0.0129242	0.0114201	2.47E-06	3.92E-06	1.04E-05	
0.264509	-0.0146279	0.013983	3.05E-06	3.43E-06	1.19E-05	
0.249481	-0.0145477	0.0114255	2.13E-06	3.69E-06	1.05E-05	
0.279496	-0.014617	0.0166669	3.55E-06	4.15E-06	1.26E-05	
0.279547	-0.0163898	0.0164201	2.80E-06	3.84E-06	1.07E-05	
0.264563	-0.0164508	0.0136485	2.86E-06	3.18E-06	1.11E-05	
0.279377	-0.0173664	0.0175446	2.24E-06	3.63E-06	9.55E-06	
0.29428	-0.0171782	0.0205313	2.10E-06	3.34E-06	9.78E-06	
0.294253	-0.018652	0.0208021	2.14E-06	4.06E-06	9.62E-06	
0.279413	-0.0191041	0.0173947	1.90E-06	2.53E-06	9.11E-06	
0.294329	-0.020476	0.0204772	2.36E-06	3.63E-06	9.32E-06	
0.309137	-0.0200603	0.0238514	2.19E-06	3.36E-06	9.80E-06	
0.309114	-0.0215342	0.0241263	2.86E-06	4.38E-06	1.04E-05	
0.29439	-0.0222649	0.0202478	3.08E-06	3.84E-06	1.07E-05	
0.309314	-0.0237106	0.0232125	2.97E-06	3.87E-06	1.12E-05	

0.324024	-0.0230531	0.0269642	2.37E-06	2.57E-06	1.17E-05
0.323988	-0.0244771	0.0273284	2.43E-06	3.34E-06	1.04E-05
0.309338	-0.0253367	0.0232364	2.95E-06	3.87E-06	1.00E-05
0.323988	-0.0260525	0.0274371	2.43E-06	3.53E-06	1.01E-05
0.338576	-0.025153	0.0315602	2.64E-06	3.01E-06	8.62E-06
0.338848	-0.0274327	0.0304915	2.27E-06	3.08E-06	8.92E-06
0.323901	-0.0273255	0.0280585	2.50E-06	3.04E-06	1.04E-05
0.338869	-0.0290085	0.0306081	2.05E-06	2.84E-06	9.81E-06
0.353269	-0.0277292	0.0353602	1.82E-06	3.63E-06	1.02E-05
0.353315	-0.0293542	0.035395	1.77E-06	3.70E-06	9.67E-06
0.338926	-0.0306858	0.0305577	2.04E-06	2.89E-06	8.61E-06
0.353324	-0.0308785	0.0356	2.06E-06	3.47E-06	8.77E-06
0.367997	-0.030419	0.0389526	1.80E-06	2.35E-06	6.47E-06
0.36803	-0.0319939	0.0390767	1.74E-06	2.18E-06	6.17E-06
0.353578	-0.0330485	0.0347055	2.15E-06	3.23E-06	8.16E-06
0.367989	-0.0334039	0.0394428	2.05E-06	1.88E-06	7.21E-06
0.382403	-0.032414	0.0436711	2.05E-06	2.41E-06	7.32E-06
0.38261	-0.0343949	0.0431313	1.91E-06	3.08E-06	6.32E-06
0.368101	-0.0351828	0.0392353	2.00E-06	3.23E-06	7.84E-06
0.382483	-0.0355496	0.0439221	1.25E-06	2.72E-06	5.95E-06
0.368034	-0.0365045	0.0397835	2.17E-06	3.17E-06	8.65E-06
0.397014	-0.0349949	0.0474316	7.74E-07	1.63E-06	5.07E-06
0.396995	-0.0364033	0.0478072	8.96E-07	2.50E-06	5.85E-06
0.382521	-0.0371249	0.0440544	8.90E-07	2.88E-06	6.82E-06
0.396866	-0.0375566	0.0486	1.03E-06	2.72E-06	5.68E-06
0.382707	-0.0390443	0.0435965	6.94E-07	3.60E-06	7.61E-06
0.397041	-0.0394381	0.0482382	9.51E-07	2.94E-06	4.89E-06
0.41118	-0.0380168	0.0531004	6.47E-07	2.15E-06	3.73E-06
0.411354	-0.039885	0.0527315	7.45E-07	2.28E-06	3.65E-06
0.397217	-0.0413074	0.0478705	1.13E-06	3.86E-06	4.26E-06
0.411519	-0.0417026	0.0524514	2.84E-07	2.46E-06	3.73E-06
0.425603	-0.0403112	0.0572587	8.59E-08	2.19E-06	3.03E-06
0.425779	-0.0421283	0.0569832	4.42E-07	1.39E-06	3.17E-06
0.411569	-0.0432786	0.0525954	5.38E-07	2.12E-06	3.69E-06
0.42586	-0.0437414	0.0570397	5.90E-07	1.31E-06	3.43E-06
0.411825	-0.0453038	0.0519888	1.01E-06	1.79E-06	4.29E-06
0.425797	-0.0450465	0.0575924	2.89E-07	1.67E-06	3.04E-06
0.440026	-0.0440827	0.0616782	6.65E-07	1.39E-06	2.07E-06
0.440039	-0.0455414	0.0619862	9.32E-07	1.47E-06	1.26E-06
0.425877	-0.0466603	0.0576523	9.15E-07	1.29E-06	1.95E-06
0.440051	-0.0470002	0.0622958	1.13E-06	1.22E-06	1.68E-06
0.454122	-0.0457983	0.0667326	6.34E-07	1.65E-06	1.48E-06
0.454319	-0.0476171	0.0664725	8.11E-07	5.77E-07	1.63E-06
0.440113	-0.0485623	0.0624443	9.60E-07	1.17E-06	1.84E-06
0.468569	-0.052554	0.0716063	1.08E-06	8.47E-07	1.84E-06
0.482353	-0.0510472	0.0764888	8.68E-07	7.51E-07	9.65E-07
0.48257	-0.052854	0.0762362	1.05E-06	1.71E-06	5.28E-07
0.468589	-0.0539994	0.0719196	1.16E-06	1.53E-06	1.43E-06
0.485218	-0.0573213	0.0774144	6.04E-07	4.31E-07	1.32E-07
0.490938	-0.0564463	0.0798234	3.07E-07	1.77E-07	4.21E-07
0.491332	-0.0585409	0.0790802	1.51E-07	9.79E-07	4.74E-07
0.490913	-0.0550015	0.0795037	6.65E-07	1.58E-06	3.14E-07

0.482933	-0.057194	0.0761784	1.25E-06	3.21E-07	5.57E-07
0.482838	-0.0561596	0.0762228	1.33E-06	1.77E-06	6.86E-07
0.491028	-0.0538162	0.0787819	4.56E-07	1.36E-06	2.84E-07
0.482704	-0.0545064	0.0762286	1.51E-06	2.12E-06	8.36E-07
0.490946	-0.0522678	0.0786266	1.27E-06	1.57E-06	1.88E-07
0.48522	-0.0505607	0.0777773	4.76E-07	3.69E-07	7.30E-07
0.482441	-0.050472	0.0760282	5.25E-07	4.05E-08	7.90E-07
0.479424	-0.0569439	0.0743309	1.06E-06	7.13E-07	8.82E-07
0.472994	-0.055371	0.0731425	1.30E-06	1.22E-06	1.30E-06
0.468633	-0.0545231	0.0718995	1.24E-06	1.26E-06	1.46E-06
0.479719	-0.0499443	0.0751374	3.63E-07	7.02E-07	7.92E-07
0.468335	-0.0506951	0.0719452	6.44E-07	8.21E-07	9.18E-07
0.473857	-0.0486443	0.073574	8.71E-07	1.80E-06	6.52E-07
0.468076	-0.0487722	0.0723595	8.99E-07	1.21E-06	1.10E-06
0.46808	-0.0473938	0.0719785	8.18E-07	1.67E-06	7.75E-07
0.467166	-0.054953	0.0700935	1.10E-06	1.18E-06	1.71E-06
0.461021	-0.0539648	0.0679663	7.51E-07	9.40E-07	2.12E-06
0.454717	-0.0526385	0.066346	2.15E-07	6.29E-07	1.04E-06
0.454738	-0.0527441	0.0661747	3.53E-07	2.77E-07	1.81E-06
0.454259	-0.050367	0.0673347	2.19E-07	3.89E-07	1.89E-06
0.468033	-0.0474374	0.0718678	6.60E-07	9.13E-07	1.37E-06
0.454372	-0.0491665	0.0666108	6.68E-07	1.62E-07	1.56E-06
0.462378	-0.0465669	0.069602	7.45E-07	1.01E-06	1.60E-06
0.456649	-0.0455959	0.0675255	4.06E-07	2.05E-06	1.42E-06
0.454146	-0.0452147	0.0664953	5.65E-07	2.16E-06	1.30E-06
0.44856	-0.0516769	0.0641813	3.39E-07	2.01E-07	1.71E-06
0.442275	-0.0504158	0.0624352	6.70E-07	3.83E-07	1.36E-06
0.440284	-0.0498976	0.0621158	7.52E-07	1.02E-06	1.52E-06
0.450813	-0.0443935	0.0657909	3.60E-07	1.79E-06	1.30E-06
0.444986	-0.0432317	0.0639939	4.38E-07	1.45E-06	1.74E-06
0.439927	-0.0425933	0.0616916	3.77E-07	1.31E-06	1.96E-06
0.436241	-0.0497236	0.0598178	6.47E-07	9.35E-07	2.14E-06
0.42991	-0.0483844	0.0582029	9.09E-07	5.92E-07	2.20E-06
0.425881	-0.0472414	0.057774	1.11E-06	9.75E-07	2.41E-06
0.439183	-0.0420957	0.0621302	4.66E-07	9.46E-07	2.63E-06
0.433604	-0.0414746	0.0594704	4.14E-07	1.54E-06	2.45E-06
0.427881	-0.0405716	0.0572316	1.19E-07	2.68E-06	2.39E-06
0.425618	-0.0398365	0.0570899	3.93E-07	2.05E-06	2.68E-06
0.423822	-0.0476129	0.0557137	1.21E-06	1.99E-06	2.75E-06
0.41792	-0.0472769	0.052494	8.14E-07	2.90E-06	3.91E-06
0.411953	-0.0457079	0.0515497	1.22E-06	2.34E-06	4.77E-06
0.422009	-0.0393492	0.0555107	6.18E-07	1.13E-06	2.98E-06
0.416143	-0.0381668	0.0537272	3.08E-07	1.34E-06	3.29E-06
0.411154	-0.0367774	0.0529335	6.22E-07	1.77E-06	3.74E-06
0.411128	-0.0453194	0.0518482	1.12E-06	1.61E-06	4.30E-06
0.404828	-0.043774	0.0505791	7.01E-07	2.46E-06	3.63E-06
0.406043	-0.0441918	0.050563	1.26E-06	1.68E-06	3.61E-06
0.398766	-0.0431772	0.0477465	3.22E-07	3.35E-06	3.74E-06
0.397548	-0.0432253	0.0468526	8.95E-07	4.29E-06	3.99E-06
0.410421	-0.0373161	0.0513749	1.12E-06	1.56E-06	4.15E-06
0.404322	-0.0359122	0.0499377	9.48E-07	1.50E-06	5.20E-06
0.405065	-0.035725	0.0507458	1.23E-06	9.36E-07	3.78E-06

0.397541	-0.0347097	0.0479966	7.67E-07	1.29E-06	5.74E-06
0.397067	-0.0349871	0.0472007	1.18E-06	1.37E-06	5.36E-06
0.392434	-0.0419504	0.0459353	1.13E-06	4.12E-06	4.43E-06
0.386083	-0.0407102	0.0441479	8.87E-07	3.58E-06	5.74E-06
0.38278	-0.0399399	0.0434437	5.56E-07	4.19E-06	7.70E-06
0.390789	-0.0336585	0.0458372	1.88E-06	2.27E-06	6.00E-06
0.384054	-0.0326277	0.0436165	2.21E-06	1.98E-06	8.08E-06
0.382511	-0.0323429	0.0431764	1.91E-06	2.01E-06	8.39E-06
0.379611	-0.0392013	0.0428017	5.04E-07	4.03E-06	7.72E-06
0.373385	-0.038277	0.040473	1.07E-06	3.02E-06	8.23E-06
0.368034	-0.0367884	0.0398366	2.14E-06	3.29E-06	9.22E-06
0.377132	-0.0311752	0.0420923	1.51E-06	1.47E-06	6.48E-06
0.370433	-0.0302497	0.0396699	1.48E-06	1.50E-06	5.59E-06
0.367895	-0.0296262	0.0392847	1.65E-06	2.44E-06	6.65E-06
0.366856	-0.0366388	0.039347	2.24E-06	3.16E-06	8.68E-06
0.360565	-0.035584	0.0372358	2.14E-06	2.28E-06	8.57E-06
0.354101	-0.0341084	0.0358199	2.31E-06	1.12E-06	7.39E-06
0.353502	-0.0341971	0.0352626	2.40E-06	2.21E-06	8.47E-06
0.363453	-0.0286643	0.0383741	1.62E-06	3.64E-06	9.22E-06
0.356577	-0.0273528	0.0365954	2.00E-06	3.86E-06	1.05E-05
0.353226	-0.0268735	0.0354317	2.26E-06	3.68E-06	9.59E-06
0.34786	-0.0332275	0.0334225	2.09E-06	3.38E-06	9.15E-06
0.341468	-0.0319632	0.0316295	2.21E-06	3.38E-06	9.45E-06
0.339042	-0.0319199	0.0301372	2.40E-06	2.73E-06	8.51E-06
0.349829	-0.0263775	0.0342581	2.31E-06	3.21E-06	8.25E-06
0.342948	-0.0250832	0.0324543	2.44E-06	2.88E-06	8.23E-06
0.338552	-0.0241329	0.0315397	2.48E-06	2.94E-06	8.56E-06
0.335097	-0.0307499	0.0297894	2.50E-06	2.58E-06	8.69E-06
0.328556	-0.0291018	0.0286381	2.41E-06	2.36E-06	1.07E-05
0.323938	-0.0278843	0.0279264	2.50E-06	2.56E-06	1.14E-05
0.336101	-0.0239232	0.0304252	2.12E-06	2.95E-06	1.00E-05
0.32918	-0.0225454	0.0287661	2.03E-06	2.28E-06	1.21E-05
0.324052	-0.0219679	0.0266822	2.15E-06	3.05E-06	1.19E-05
0.322058	-0.0275423	0.0273487	2.04E-06	2.96E-06	1.05E-05
0.315611	-0.0261704	0.025746	2.23E-06	3.70E-06	1.05E-05
0.309533	-0.0253239	0.0233831	2.90E-06	3.83E-06	1.09E-05
0.309337	-0.0253504	0.0232443	3.02E-06	3.57E-06	1.03E-05
0.322292	-0.0212373	0.0269612	2.44E-06	4.92E-06	9.94E-06
0.314975	-0.0200716	0.0248471	2.07E-06	3.15E-06	9.44E-06
0.317715	-0.0203189	0.0258749	2.18E-06	4.52E-06	8.64E-06
0.309066	-0.0187443	0.0241227	2.05E-06	3.42E-06	1.08E-05
0.30923	-0.0252375	0.0233928	3.03E-06	3.29E-06	1.04E-05
0.300248	-0.0232772	0.0223515	3.21E-06	3.49E-06	1.12E-05
0.294313	-0.0224999	0.0207244	3.23E-06	3.32E-06	1.12E-05
0.306654	-0.0185377	0.0232006	2.16E-06	4.15E-06	1.14E-05
0.298349	-0.0170302	0.0215141	2.34E-06	3.20E-06	1.10E-05
0.294211	-0.0161743	0.0208703	2.48E-06	3.06E-06	1.07E-05
0.291494	-0.0221573	0.0199165	2.80E-06	3.16E-06	1.00E-05
0.282814	-0.0212954	0.0170098	2.25E-06	2.93E-06	8.92E-06
0.279598	-0.0207744	0.0162956	2.03E-06	1.90E-06	8.81E-06
0.290055	-0.0156487	0.0196114	3.07E-06	3.40E-06	1.13E-05
0.281787	-0.0142788	0.0176623	3.76E-06	4.07E-06	1.27E-05

0.279386	-0.0137623	0.0173209	3.81E-06	4.44E-06	1.27E-05
0.27375	-0.0191064	0.0163731	2.25E-06	2.36E-06	8.80E-06
0.265022	-0.0181383	0.0136478	2.67E-06	3.73E-06	9.61E-06
0.264466	-0.0176219	0.0143138	2.92E-06	3.32E-06	1.08E-05
0.273471	-0.0128351	0.0158386	3.14E-06	3.37E-06	1.05E-05
0.265177	-0.0114303	0.0139838	2.44E-06	1.43E-06	7.23E-06
0.264526	-0.0113214	0.0138233	2.58E-06	1.41E-06	7.57E-06
0.256042	-0.0162319	0.012506	2.57E-06	3.01E-06	1.11E-05
0.249585	-0.0154248	0.010667	1.95E-06	3.51E-06	1.07E-05
0.256837	-0.00993788	0.0122475	3.28E-06	3.27E-06	1.08E-05
0.249538	-0.00840672	0.0111555	3.34E-06	3.57E-06	1.16E-05
0.247134	-0.0146606	0.0108208	1.94E-06	3.93E-06	1.08E-05
0.238305	-0.0133594	0.00867188	2.54E-06	4.05E-06	1.06E-05
0.234501	-0.0124045	0.00845227	3.48E-06	2.77E-06	9.34E-06
0.248533	-0.0085198	0.010386	2.71E-06	2.97E-06	9.53E-06
0.240108	-0.00663395	0.00934374	2.46E-06	2.51E-06	9.25E-06
0.234494	-0.00537819	0.00895318	2.48E-06	3.08E-06	8.06E-06
0.239434	-0.00660367	0.00900729	2.30E-06	2.10E-06	7.90E-06
0.229238	-0.0110759	0.00820008	3.71E-06	2.40E-06	8.87E-06
0.219467	-0.00997916	0.00584745	2.77E-06	4.47E-06	1.08E-05
0.229908	-0.00468051	0.008105	2.44E-06	3.86E-06	7.95E-06
0.219619	-0.00311785	0.00612422	2.32E-06	3.68E-06	7.91E-06
0.219567	-0.00329891	0.00575896	2.35E-06	3.52E-06	8.39E-06
0.218035	-0.00989231	0.00540507	2.71E-06	4.14E-06	1.02E-05
0.206421	-0.00741449	0.00482543	2.59E-06	3.14E-06	8.95E-06
0.204372	-0.00760551	0.00357022	2.48E-06	2.66E-06	7.59E-06
0.209328	-0.00148305	0.00430685	2.46E-06	3.01E-06	7.78E-06
0.20441	-6.43E-05	0.00461343	2.31E-06	2.62E-06	7.31E-06
0.194937	-0.00549833	0.00330199	2.54E-06	1.82E-06	7.09E-06
0.190106	-0.00474637	0.00254851	2.35E-06	1.17E-06	6.98E-06
0.189234	-0.00482477	0.00205405	2.03E-06	1.97E-06	7.52E-06
0.198952	0.000593306	0.00324247	1.99E-06	2.57E-06	7.31E-06
0.189459	0.00202589	0.0014412	2.01E-06	2.40E-06	7.12E-06
0.182209	-0.00347789	0.00172394	1.71E-06	2.15E-06	7.16E-06
0.174043	-0.00204183	0.00106515	1.57E-06	2.01E-06	5.81E-06
0.188544	0.00283761	0.00251477	2.18E-06	1.63E-06	6.83E-06
0.178235	0.00464398	0.000980179	4.05E-06	3.26E-06	4.37E-06
0.174344	0.00495388	0.000157	3.91E-06	2.36E-06	4.25E-06
0.176751	0.00492706	0.000818917	6.94E-06	5.48E-06	3.30E-06
0.168602	-0.00145957	-1.40E-05	1.74E-06	2.19E-06	5.25E-06
0.158942	0.000459184	-0.000376321	1.75E-06	2.21E-06	4.76E-06
0.159203	0.00681699	-0.000923898	2.03E-06	7.59E-07	4.77E-06
0.154955	0.00110895	-0.000763138	1.31E-06	1.85E-06	4.46E-06
0.148834	0.00217507	-0.00126347	9.69E-07	1.42E-06	4.17E-06
0.143825	0.00279489	-0.00165527	1.14E-06	8.34E-07	4.00E-06
0.155044	0.00770597	-0.000535703	1.24E-06	2.29E-06	3.67E-06
0.14409	0.00856271	-0.0022121	1.21E-06	2.09E-06	3.28E-06
0.13507	0.00399274	-0.0020684	1.39E-06	1.85E-07	3.95E-06
0.128671	0.00492468	-0.00229252	1.95E-06	5.30E-07	3.48E-06
0.129742	0.0109836	-0.00205762	1.94E-06	1.28E-06	3.12E-06
0.113547	0.00688752	-0.00322423	2.09E-06	9.27E-07	2.87E-06
0.113828	0.0132126	-0.0027075	2.55E-06	2.40E-06	2.32E-06

0.110079	0.00766777	-0.00283745	1.86E-06	5.29E-07	3.03E-06
0.0984324	0.00940913	-0.00313831	1.38E-06	7.45E-07	2.95E-06
0.104485	0.0145827	-0.00301336	2.21E-06	2.50E-06	2.56E-06
0.0987602	0.0153908	-0.00322614	1.86E-06	1.93E-06	2.36E-06
0.085164	0.0122065	-0.00198283	1.71E-06	7.53E-07	2.28E-06
0.0833647	0.0119069	-0.00308418	2.37E-06	4.21E-07	2.22E-06
0.0837173	0.0181562	-0.0026297	1.62E-06	8.75E-07	1.75E-06
0.0683454	0.0148617	-0.00218628	2.51E-06	4.66E-07	2.49E-06
0.0793178	0.018888	-0.00258962	1.56E-06	1.72E-06	1.11E-06
0.0686845	0.0200051	-0.00249149	1.61E-06	2.28E-06	1.20E-06
0.0687268	0.0206579	-0.00250536	1.50E-06	2.63E-06	1.00E-06
0.0650009	0.0155212	-0.00252105	2.03E-06	2.25E-07	1.83E-06
0.0649292	0.0157374	-0.00161259	2.61E-06	7.39E-07	1.78E-06
0.0653679	0.0172093	-0.00230807	1.79E-06	8.32E-07	1.75E-06
0.0657505	0.0189433	-0.00200478	1.88E-06	9.58E-07	1.30E-06
0.0661355	0.0208674	-0.00134794	1.62E-06	2.23E-06	9.79E-07
0.066321	0.0213002	-0.00204018	1.55E-06	2.81E-06	1.21E-06

Source File Name: beam3lb\_neg30deg\_fast\_160Hz  
 Signal: FFT - Vib 3D Velocity - Magnitude  
 dB-Reference: 0 dB = 1 m/s  
 Band No.: 1  
 Frequency: 160.0 Hz

Interpolated: Yes  
 Filtered: Yes

X	Y	Z	Mag X	Mag Y	Mag Z
0.0685788	0.0181916	-0.00286927	0.000357398	0.000227167	0.000505639
0.0836412	0.0166094	-0.0030387	0.000384395	0.000309527	0.00095449
0.0835434	0.0153833	-0.00236822	0.00038854	0.000310836	0.000963508
0.0684804	0.0169183	-0.00228714	0.00036481	0.000231876	0.000508905
0.0834515	0.0135322	-0.00283605	0.000387426	0.000311338	0.000970347
0.0683762	0.0152471	-0.00239778	0.000361371	0.0002307	0.000509918
0.0987412	0.015019	-0.00325087	0.000382826	0.000387179	0.0014653
0.0986513	0.0134896	-0.00309802	0.000384489	0.000407092	0.00158378
0.0985669	0.011829	-0.00321379	0.00037905	0.00040858	0.00161591
0.113772	0.0123441	-0.00245987	0.000363028	0.000504388	0.0022643
0.113725	0.0101517	-0.00353766	0.000347449	0.000504948	0.00229693
0.113628	0.00886169	-0.0029425	0.000347669	0.000497884	0.00227984
0.0984872	0.00996064	-0.0036702	0.000379474	0.000406887	0.00160668
0.128946	0.0107918	-0.00255624	0.000318587	0.000575848	0.00274794
0.128895	0.00893562	-0.00301952	0.000286899	0.000580964	0.00288535
0.128804	0.00761053	-0.00251883	0.000279658	0.000587439	0.00287393
0.128737	0.00593242	-0.00262079	0.000288605	0.000602223	0.00287548
0.113563	0.00700464	-0.00340303	0.000351312	0.000523319	0.00236879
0.144039	0.00813491	-0.00174914	0.000232652	0.000648572	0.00332617
0.143973	0.0065675	-0.00168482	0.000220132	0.00065656	0.00340715
0.143925	0.00479152	-0.00196024	0.000220071	0.000662473	0.00341164
0.159115	0.00584412	-0.00027431	0.000132699	0.000709163	0.00380006
0.15909	0.00397052	-0.000722973	0.000127696	0.000706417	0.00380354

0.159065	0.00210922	-0.00117689	0.00012195	0.000708896	0.00380648
0.143831	0.00351464	-0.00136863	0.000214772	0.000659707	0.00346057
0.17434	0.00451817	5.54E-05	6.10E-05	0.000737416	0.00402997
0.174221	0.00342163	0.00100245	5.01E-05	0.000743661	0.00402138
0.174223	0.00146258	0.000375799	2.84E-05	0.000755769	0.00401904
0.17415	2.50E-05	0.000716455	2.22E-05	0.000759326	0.00400619
0.158988	0.000671656	-0.000836795	0.00011075	0.000719333	0.00384978
0.189384	0.000796108	0.0018939	5.46E-05	0.000773923	0.00404682
0.189315	-0.000641573	0.00223525	8.69E-05	0.000777389	0.00400441
0.189247	-0.00206546	0.00257048	0.000101456	0.000773759	0.00399588
0.174129	-0.00188742	0.000179925	9.62E-06	0.000753398	0.00402092
0.204487	-0.00132834	0.00372012	0.000188421	0.000786303	0.00385661
0.204511	-0.00324243	0.00318884	0.000226743	0.000782456	0.0037771
0.204314	-0.00394508	0.00483488	0.000238309	0.000781343	0.00377793
0.189278	-0.00414066	0.00178645	0.000115939	0.000776272	0.00400252
0.219595	-0.00345979	0.00550683	0.000318183	0.000775846	0.00343297
0.219514	-0.00479996	0.00602617	0.000338126	0.000773391	0.0034365
0.219523	-0.00656871	0.00576057	0.000371502	0.000769566	0.00332539
0.204418	-0.00640089	0.0033526	0.000242514	0.000781272	0.00376367
0.234612	-0.00685488	0.00795669	0.000511227	0.000749639	0.00280216
0.234512	-0.00808025	0.00864448	0.000520376	0.000744776	0.00276142
0.219422	-0.00781042	0.00645598	0.000385058	0.000761408	0.00330511
0.234552	-0.00996522	0.00821953	0.000552721	0.000739057	0.00266132
0.21944	-0.00962994	0.00610781	0.000406953	0.000760214	0.00323931
0.249582	-0.0100113	0.0108042	0.000702885	0.000711108	0.00201884
0.249588	-0.0116973	0.0107278	0.000749335	0.000700733	0.00184709
0.234527	-0.0115388	0.00830661	0.000596725	0.000735096	0.00258229
0.264531	-0.0114674	0.0137918	0.000896913	0.000662129	0.00107458
0.264573	-0.0132388	0.0135391	0.000925315	0.000646999	0.00106175
0.249487	-0.0129242	0.0114201	0.000774242	0.000685102	0.00180182
0.264509	-0.0146279	0.013983	0.000978917	0.000628003	0.000881469
0.249481	-0.0145477	0.0114255	0.000803616	0.000669425	0.00171162
0.279496	-0.014617	0.0166669	0.00113602	0.000579148	5.40E-05
0.279547	-0.0163898	0.0164201	0.00114982	0.000587741	2.09E-05
0.264563	-0.0164508	0.0136485	0.000999667	0.00063191	0.000784294
0.279377	-0.0173664	0.0175446	0.00119131	0.000576386	0.000180374
0.29428	-0.0171782	0.0205313	0.00138422	0.000524284	0.00103507
0.294253	-0.018652	0.0208021	0.00141102	0.00050668	0.00110555
0.279413	-0.0191041	0.0173947	0.00123374	0.000557242	0.000300166
0.294329	-0.020476	0.0204772	0.00145929	0.000485051	0.00128992
0.309137	-0.0200603	0.0238514	0.00163758	0.000427308	0.00208206
0.309114	-0.0215342	0.0241263	0.00166978	0.000413216	0.00219302
0.29439	-0.0222649	0.0202478	0.00149736	0.000474732	0.00141026
0.309314	-0.0237106	0.0232125	0.00169079	0.000397786	0.00236229
0.324024	-0.0230531	0.0269642	0.00182058	0.000357344	0.00310812
0.323988	-0.0244771	0.0273284	0.00185084	0.000345237	0.00317656
0.309338	-0.0253367	0.0232364	0.00171018	0.000399854	0.00251474
0.323988	-0.0260525	0.0274371	0.00193153	0.000333951	0.00335277
0.338576	-0.025153	0.0315602	0.00204856	0.000271161	0.00395061
0.338848	-0.0274327	0.0304915	0.00205694	0.000276857	0.0040255
0.323901	-0.0273255	0.0280585	0.0019484	0.000316508	0.00343695
0.338869	-0.0290085	0.0306081	0.0020829	0.000271341	0.00416779

0.353269	-0.0277292	0.0353602	0.00218131	0.000199674	0.00462714
0.353315	-0.0293542	0.035395	0.00219605	0.000190306	0.00467121
0.338926	-0.0306858	0.0305577	0.0021027	0.00025613	0.00425876
0.353324	-0.0308785	0.0356	0.00222754	0.00018471	0.0047828
0.367997	-0.030419	0.0389526	0.00229081	0.000152842	0.00513217
0.36803	-0.0319939	0.0390767	0.00231052	0.000150583	0.00515962
0.353578	-0.0330485	0.0347055	0.00225213	0.000178209	0.00485113
0.367989	-0.0334039	0.0394428	0.00232641	0.000134456	0.00522039
0.382403	-0.032414	0.0436711	0.00234743	0.000108169	0.00541135
0.38261	-0.0343949	0.0431313	0.00234696	9.63E-05	0.00543215
0.368101	-0.0351828	0.0392353	0.00233411	0.000120938	0.0052713
0.382483	-0.0355496	0.0439221	0.00235085	8.48E-05	0.00544123
0.368034	-0.0365045	0.0397835	0.00235145	0.000111784	0.00531384
0.397014	-0.0349949	0.0474316	0.00232138	7.34E-05	0.00543879
0.396995	-0.0364033	0.0478072	0.00231237	7.09E-05	0.00544769
0.382521	-0.0371249	0.0440544	0.00235636	8.16E-05	0.00549155
0.396866	-0.0375566	0.0486	0.00231	6.85E-05	0.00546341
0.382707	-0.0390443	0.0435965	0.00236595	7.40E-05	0.00553179
0.397041	-0.0394381	0.0482382	0.0022929	7.65E-05	0.00547277
0.411118	-0.0380168	0.0531004	0.00220283	8.01E-05	0.00528216
0.411354	-0.039885	0.0527315	0.00220474	6.81E-05	0.00529937
0.397217	-0.0413074	0.0478705	0.00230474	6.24E-05	0.00550445
0.411519	-0.0417026	0.0524514	0.00218028	6.57E-05	0.00527487
0.425603	-0.0403112	0.0572587	0.00203564	6.49E-05	0.00492669
0.425779	-0.0421283	0.0569832	0.00203492	6.05E-05	0.00491333
0.411569	-0.0432786	0.0525954	0.00216511	5.30E-05	0.00526178
0.42586	-0.0437414	0.0570397	0.00201466	6.01E-05	0.00488158
0.411825	-0.0453038	0.0519888	0.00216077	5.34E-05	0.00525162
0.425797	-0.0450465	0.0575924	0.00198636	6.49E-05	0.00482813
0.440026	-0.0440827	0.0616782	0.00178589	7.97E-05	0.00436776
0.440039	-0.0455414	0.0619862	0.00175828	7.48E-05	0.00434938
0.425877	-0.0466603	0.0576523	0.00195186	5.81E-05	0.004804
0.440051	-0.0470002	0.0622958	0.00169922	8.30E-05	0.00426331
0.454122	-0.0457983	0.0667326	0.00149588	0.000101745	0.003666
0.454319	-0.0476171	0.0664725	0.00146978	0.00010773	0.00365291
0.440113	-0.0485623	0.062443	0.00166509	8.95E-05	0.00421797
0.468569	-0.052554	0.0716063	0.0010927	0.000118772	0.00274017
0.482353	-0.0510472	0.0764888	0.000868551	0.000131793	0.00210212
0.48257	-0.052854	0.0762362	0.000833461	0.000126035	0.00203772
0.468589	-0.0539994	0.0719196	0.00105264	0.000113063	0.00269689
0.485218	-0.0573213	0.0774144	0.000676517	0.000114208	0.00176372
0.490938	-0.0564463	0.0798234	0.000620607	0.000114208	0.00159896
0.491332	-0.0585409	0.0790802	0.000620253	0.000112255	0.00161783
0.490913	-0.0550015	0.0795037	0.000664505	0.000122803	0.00161963
0.482933	-0.057194	0.0761784	0.000787801	0.000122448	0.00201825
0.482838	-0.0561596	0.0762228	0.000775281	0.000125735	0.00195581
0.491028	-0.0538162	0.0787819	0.000704424	0.000130239	0.00160206
0.482704	-0.0545064	0.0762286	0.00080903	0.000124899	0.00200734
0.490946	-0.0522678	0.0786266	0.000723841	0.000132852	0.0016182
0.48522	-0.0505607	0.0777773	0.000817562	0.0001404	0.00195419
0.482441	-0.050472	0.0760282	0.000861411	0.00013396	0.00205085
0.479424	-0.0569439	0.0743309	0.000861721	0.000125739	0.0021927

0.472994	-0.055371	0.0731425	0.000943797	0.000121985	0.00242777
0.468633	-0.0545231	0.0718995	0.00107791	0.000112736	0.00279232
0.479719	-0.0499443	0.0751374	0.00100799	0.00011619	0.00247705
0.468335	-0.0506951	0.0719452	0.0011463	9.96E-05	0.00286816
0.473857	-0.0486443	0.073574	0.00108177	0.000110242	0.00270359
0.468076	-0.0487722	0.0723595	0.00116068	0.000100145	0.00292024
0.46808	-0.0473938	0.0719785	0.00114297	0.000111384	0.00283717
0.467166	-0.054953	0.0700935	0.00116306	0.000112258	0.0029446
0.461021	-0.0539648	0.0679663	0.00126667	0.000102408	0.00315357
0.454717	-0.0526385	0.066346	0.00134057	7.97E-05	0.0033494
0.454738	-0.0527441	0.0661747	0.00143641	6.08E-05	0.00363688
0.454259	-0.050367	0.0673347	0.00138046	7.48E-05	0.00350188
0.468033	-0.0474374	0.0718678	0.00130101	0.000109928	0.00318184
0.454372	-0.0491665	0.0666108	0.00143762	9.70E-05	0.00360165
0.462378	-0.0465669	0.069602	0.00139278	0.000109968	0.00338737
0.456649	-0.0455959	0.0675255	0.00144593	0.000110106	0.00350072
0.454146	-0.0452147	0.0664953	0.00149571	0.000103561	0.003627
0.44856	-0.0516769	0.0641813	0.00149357	7.54E-05	0.00382999
0.442275	-0.0504158	0.0624352	0.00158021	9.48E-05	0.00404372
0.440284	-0.0498976	0.0621158	0.00170374	8.77E-05	0.00433098
0.450813	-0.0443935	0.0657909	0.00163947	8.86E-05	0.0040204
0.444986	-0.0432317	0.0639939	0.00172522	8.47E-05	0.00419884
0.439927	-0.0425933	0.0616916	0.00177505	8.02E-05	0.00430525
0.436241	-0.0497236	0.0598178	0.00178476	7.70E-05	0.00447908
0.42991	-0.0483844	0.0582029	0.00186337	5.91E-05	0.00465287
0.425881	-0.0472414	0.0577774	0.00197045	5.05E-05	0.00488144
0.439183	-0.0420957	0.0621302	0.00190514	6.60E-05	0.00458233
0.433604	-0.0414746	0.0594704	0.00197535	6.36E-05	0.00474687
0.427881	-0.0405716	0.0572316	0.00200418	6.45E-05	0.00482939
0.425618	-0.0398365	0.0570899	0.00203731	6.61E-05	0.00490976
0.423822	-0.0476129	0.0557137	0.00203476	6.11E-05	0.00497789
0.41792	-0.0472769	0.052494	0.00210216	6.85E-05	0.00511917
0.411953	-0.0457079	0.0515497	0.00218034	5.95E-05	0.00531579
0.422009	-0.0393492	0.0555107	0.0021373	7.12E-05	0.00512987
0.416143	-0.0381668	0.0537272	0.00217337	8.34E-05	0.00520614
0.411154	-0.0367774	0.0529335	0.00220114	8.31E-05	0.00524177
0.41128	-0.0453194	0.0518482	0.00219903	5.87E-05	0.00536677
0.404828	-0.043774	0.0505791	0.00224204	6.21E-05	0.00545197
0.406043	-0.0441918	0.050563	0.00222433	6.33E-05	0.00542951
0.398766	-0.0431772	0.0477465	0.00227508	7.31E-05	0.00550043
0.397548	-0.0432253	0.0468526	0.00233107	6.77E-05	0.00556866
0.410421	-0.0373161	0.0513749	0.00226747	6.80E-05	0.00532782
0.404322	-0.0359122	0.0499377	0.00229526	6.61E-05	0.0053947
0.405065	-0.035725	0.0507458	0.00228619	5.90E-05	0.0053353
0.397541	-0.0347097	0.0479966	0.00231318	7.41E-05	0.00542218
0.397067	-0.0349871	0.0472007	0.00232626	7.97E-05	0.00544195
0.392434	-0.0419504	0.0459353	0.00233838	6.98E-05	0.00556809
0.386083	-0.0407102	0.0441479	0.00234467	8.41E-05	0.00556113
0.38278	-0.0399399	0.0434437	0.00237618	8.24E-05	0.00555498
0.390789	-0.0336585	0.0458372	0.00234139	9.17E-05	0.00545697
0.384054	-0.0326277	0.0436165	0.00234633	0.000101517	0.00544526
0.382511	-0.0323429	0.0431764	0.00234298	0.000111283	0.00539997

0.379611	-0.0392013	0.0428017	0.0023799	8.56E-05	0.00550824
0.373385	-0.038277	0.040473	0.00236923	0.000104341	0.0054313
0.368034	-0.0367884	0.0398366	0.00235681	0.000120298	0.00531385
0.377132	-0.0311752	0.0420923	0.00232302	0.00013489	0.00527033
0.370433	-0.0302497	0.0396699	0.00230213	0.00014365	0.00519825
0.367895	-0.0296262	0.0392847	0.00228341	0.000149444	0.00511195
0.366856	-0.0366388	0.039347	0.00234216	0.000123377	0.00523726
0.360565	-0.035584	0.0372358	0.0023103	0.000134352	0.00511818
0.354101	-0.0341084	0.0358199	0.00228671	0.000150076	0.00498122
0.353502	-0.0341971	0.0352626	0.00224772	0.000174118	0.00479242
0.363453	-0.0286643	0.0383741	0.00223974	0.000157364	0.0048586
0.356577	-0.0273528	0.0365954	0.00221003	0.000175276	0.00473659
0.353226	-0.0268735	0.0354317	0.00218242	0.000200069	0.0046246
0.34786	-0.0332275	0.0334225	0.00221076	0.000201256	0.00465371
0.341468	-0.0319632	0.0316295	0.00215835	0.0002318	0.00446991
0.339042	-0.0319199	0.0301372	0.00209262	0.000266309	0.00420122
0.349829	-0.0263775	0.0342581	0.00211662	0.000243492	0.00430111
0.342948	-0.0250832	0.0324543	0.00208471	0.000247736	0.00411004
0.338552	-0.0241329	0.0315397	0.00204669	0.000261658	0.00395144
0.335097	-0.0307499	0.0297894	0.00206521	0.000274241	0.00403377
0.328556	-0.0291018	0.0286381	0.00201851	0.000290448	0.00376169
0.323938	-0.0278843	0.0279264	0.00194217	0.000312169	0.00336058
0.336101	-0.0239232	0.0304252	0.00194694	0.000305925	0.0035405
0.32918	-0.0225454	0.0287661	0.00187896	0.000337263	0.00332892
0.324052	-0.0219679	0.0266822	0.00184615	0.000363361	0.00318705
0.322058	-0.0275423	0.0273487	0.00191444	0.000334843	0.00318777
0.315611	-0.0261704	0.025746	0.00183344	0.000400567	0.00293719
0.309533	-0.0253239	0.0233831	0.00168004	0.000468633	0.00254396
0.309337	-0.0253504	0.0232443	0.00165755	0.000435864	0.00239714
0.322292	-0.0212373	0.0269612	0.0018082	0.000374563	0.00282209
0.314975	-0.0200716	0.0248471	0.00171014	0.000401092	0.00237513
0.317715	-0.0203189	0.0258749	0.00180082	0.000366692	0.00271637
0.309066	-0.0187443	0.0241227	0.00162634	0.000428414	0.00208987
0.30923	-0.0252375	0.0233928	0.00166308	0.000415608	0.00224693
0.300248	-0.0232772	0.0223515	0.00160785	0.000430981	0.00188111
0.294313	-0.0224999	0.0207244	0.00148847	0.000475796	0.00134023
0.306654	-0.0185377	0.0232006	0.00150327	0.000468528	0.00153034
0.298349	-0.0170302	0.0215141	0.00143453	0.000498257	0.00126033
0.294211	-0.0161743	0.0208703	0.00137656	0.000523512	0.00101124
0.291494	-0.0221573	0.0199165	0.00141369	0.000503275	0.00104972
0.282814	-0.0212954	0.0170098	0.00131826	0.000526182	0.000705387
0.279598	-0.0207744	0.0162956	0.00119918	0.000559991	0.000177955
0.290055	-0.0156487	0.0196114	0.00123983	0.000552074	0.000399423
0.281787	-0.0142788	0.0176623	0.00117797	0.000555268	0.00014257
0.279386	-0.0137623	0.0173209	0.00112565	0.000578176	0.000100142
0.27375	-0.0191064	0.0163731	0.00115812	0.000582693	0.000159762
0.265022	-0.0181383	0.0136478	0.00108501	0.00060818	0.000499829
0.264466	-0.0176219	0.0143138	0.000976483	0.000637034	0.000954992
0.273471	-0.0128351	0.0158386	0.0010022	0.000621653	0.000705713
0.265177	-0.0114303	0.0139838	0.000920743	0.000650787	0.000918249
0.264526	-0.0113214	0.0138233	0.000865107	0.000670512	0.00111886
0.256042	-0.0162319	0.012506	0.000906263	0.000655088	0.00127043

0.249585	-0.0154248	0.010667	0.000800091	0.00067119	0.00177859
0.256837	-0.00993788	0.0122475	0.000754095	0.000697675	0.00170068
0.249538	-0.00840672	0.0111555	0.000690549	0.000712905	0.00200425
0.247134	-0.0146606	0.0108208	0.000746244	0.000682278	0.00202035
0.238305	-0.0133594	0.00867188	0.000665242	0.00070993	0.00229101
0.234501	-0.0124045	0.00845227	0.000572907	0.000736826	0.00268524
0.248533	-0.0085198	0.010386	0.000598387	0.000733082	0.00238969
0.240108	-0.00663395	0.00934374	0.000562687	0.000739704	0.00252433
0.234494	-0.00537819	0.00895318	0.000500481	0.000749356	0.00284571
0.239434	-0.00660367	0.00900729	0.000557137	0.000733595	0.0025698
0.229238	-0.0110759	0.00820008	0.000555719	0.000741438	0.0027984
0.219467	-0.00997916	0.00584745	0.000380734	0.000760337	0.00335304
0.229908	-0.00468051	0.008105	0.000386462	0.000767361	0.00325354
0.219619	-0.00311785	0.00612422	0.000331289	0.000773265	0.00336015
0.219567	-0.00329891	0.00575896	0.000299452	0.000780291	0.0034519
0.218035	-0.00989231	0.00540507	0.000354382	0.000762162	0.00343242
0.206421	-0.00741449	0.00482543	0.000300081	0.00076758	0.00359778
0.204372	-0.00760551	0.00357022	0.000222523	0.000776736	0.00382568
0.209328	-0.00148305	0.00430685	0.00022401	0.000789141	0.00373075
0.20441	-6.43E-05	0.00461343	0.000171322	0.000786519	0.00386797
0.194937	-0.00549833	0.00330199	0.000180191	0.000784722	0.00392179
0.190106	-0.00474637	0.00254851	0.000126074	0.000785363	0.00402223
0.189234	-0.00482477	0.00205405	9.39E-05	0.000776478	0.0040363
0.198952	0.000593306	0.00324247	9.13E-05	0.000778266	0.00400107
0.189459	0.00202589	0.0014412	4.61E-05	0.000773488	0.00404685
0.182209	-0.00347789	0.00172394	5.69E-05	0.000768087	0.00403324
0.174043	-0.00204183	0.00106515	1.41E-05	0.000747943	0.00401578
0.188544	0.00283761	0.00251477	1.27E-05	0.000761468	0.00406134
0.178235	0.00464398	0.000980179	3.19E-05	0.000762803	0.00411714
0.174344	0.00495388	0.000157	7.05E-05	0.000740113	0.00405336
0.176751	0.00492706	0.000818917	3.98E-05	0.000773028	0.00417054
0.168602	-0.00145957	-1.40E-05	5.71E-05	0.000730765	0.00396537
0.158942	0.000459184	-0.000376321	0.000116774	0.000711579	0.00383821
0.159203	0.00681699	-0.000923898	0.000137815	0.000706359	0.00378654
0.154955	0.00110895	-0.000763138	0.000151921	0.000697506	0.00374375
0.148834	0.00217507	-0.00126347	0.000196187	0.00067176	0.00359085
0.143825	0.00279489	-0.00165527	0.000226517	0.000653513	0.00341528
0.155044	0.00770597	-0.000535703	0.000203278	0.000671246	0.00349406
0.14409	0.00856271	-0.0022121	0.000243151	0.0006472	0.00330855
0.13507	0.00399274	-0.0020684	0.000253102	0.00064162	0.00321953
0.128671	0.00492468	-0.00229252	0.000304994	0.000606016	0.00281994
0.129742	0.0109836	-0.00205762	0.000296558	0.000613273	0.00301723
0.113547	0.00688752	-0.00322423	0.00036056	0.00052824	0.00239201
0.113828	0.0132126	-0.0027075	0.000378635	0.000479914	0.00207883
0.110079	0.00766777	-0.00283745	0.000376109	0.000483031	0.00212819
0.0984324	0.00940913	-0.00313831	0.000385361	0.000406566	0.00160905
0.104485	0.0145827	-0.00301336	0.000382478	0.000422624	0.00170782
0.0987602	0.0153908	-0.00322614	0.000387774	0.00038297	0.0014434
0.085164	0.0122065	-0.00198283	0.000390303	0.000347514	0.00123634
0.0833647	0.0119069	-0.00308418	0.000387617	0.000290102	0.000862826
0.0837173	0.0181562	-0.0026297	0.000385958	0.000308213	0.000954907
0.0683454	0.0148617	-0.00218628	0.000366688	0.000230233	0.000522755

0.0793178	0.018888	-0.00258962	0.000361476	0.000233931	0.000524241
0.0686845	0.0200051	-0.00249149	0.000356475	0.000217195	0.000424983
0.0687268	0.0206579	-0.00250536	0.00038643	0.000257829	0.000393989
0.0650009	0.0155212	-0.00252105	0.000355809	0.000204998	0.000381724
0.0649292	0.0157374	-0.00161259	0.000359309	0.000200617	0.000382571
0.0653679	0.0172093	-0.00230807	0.000359527	0.000207581	0.000388978
0.0657505	0.0189433	-0.00200478	0.000370656	0.000210742	0.000402542
0.0661355	0.0208674	-0.00134794	0.000411565	0.000261307	0.000386803
0.066321	0.0213002	-0.00204018	0.000454878	0.000326735	0.000350275

## Appendix B: MathCad File for Linear Theory [8]

### Cantilever Beam with a Tip Weight

#### Characteristic Equation for Bending

$$D_2(\zeta, \alpha l) := \frac{\alpha l^3 \cdot \zeta \cdot (\cos(\alpha l) - \cosh(\alpha l)) + (\sin(\alpha l) + \sinh(\alpha l))}{\alpha l^3 \cdot \zeta \cdot (\sin(\alpha l) + \sinh(\alpha l)) - (\cos(\alpha l) + \cosh(\alpha l))}$$

$$CEqnB(\lambda, \zeta, \alpha l) := \alpha l \cdot \lambda \cdot (\sin(\alpha l) - \sinh(\alpha l)) - (\cos(\alpha l) + \cosh(\alpha l)) \dots + D_2(\zeta, \alpha l) \cdot [\alpha l \cdot \lambda \cdot (\cos(\alpha l) - \cosh(\alpha l)) + (\sin(\alpha l) - \sinh(\alpha l))]$$

#### Characteristic Equation for Torsion

$$CEqnT(\zeta, \alpha l) := \alpha l \cdot \zeta \cdot \sin(\alpha l) - \cos(\alpha l)$$

#### Beam Properties (Given)

$$b := 0.125 \cdot \text{in} \quad h := 0.5 \cdot \text{in} \quad l := 20 \cdot \text{in}$$

$$\rho_{Al} := 175 \cdot \frac{\text{lb}}{\text{ft}^3} \quad E_{Al} := 10.4 \cdot 10^6 \cdot \frac{\text{lbf}}{\text{in}^2} \quad G_{Al} := 3.9 \cdot 10^6 \cdot \frac{\text{lbf}}{\text{in}^2}$$

#### Tip Weight Properties (Given)

$$TipWt_{lb,in} :=$$

	1	2	3
1	0.0000	0.0000	0.0000
2	0.8170	0.4280	0.2980
3	1.0040	0.5280	0.3790
4	2.9810	1.5820	3.8520
5	2.0090	3.1200	1.6590
6	3.0150	4.6950	2.6580
7	4.0190	8.1420	4.6360
8	4.5200	9.1600	5.3590

$$nRow := 6$$

$$m_{tip} := m_{w,nRow}$$

$$I_{xx} := I_{w,xx,nRow}$$

$$m_w := TipWt_{lb,in}^{(1)} \cdot \text{lb}$$

$$I_{w,xx} := TipWt_{lb,in}^{(2)} \cdot \text{lb} \cdot \text{in}^2$$

$$I_{w,zz} := TipWt_{lb,in}^{(3)} \cdot \text{lb} \cdot \text{in}^2$$

Beam Properties (Calculated)

$$m := \rho_{Al} \cdot b \cdot h \quad m = 6.33 \times 10^{-3} \frac{lb}{in}$$

$$EI_w := E_{Al} \left( \frac{b^3 \cdot h}{12} \right) \quad EI_w = 846.354 \text{ lbf} \cdot \text{in}^2$$

$$EI_v := E_{Al} \left( \frac{b \cdot h^3}{12} \right) \quad EI_v = 1.354 \times 10^4 \text{ lbf} \cdot \text{in}^2$$

$$I_p := \left[ \frac{b \cdot h \cdot (b^2 + h^2)}{12} \right] \quad I_p = 1.383 \times 10^{-3} \text{ in}^4$$

$$GJ := G_{Al} \cdot I_p \quad GJ = 5.396 \times 10^3 \text{ lbf} \cdot \text{in}^2$$

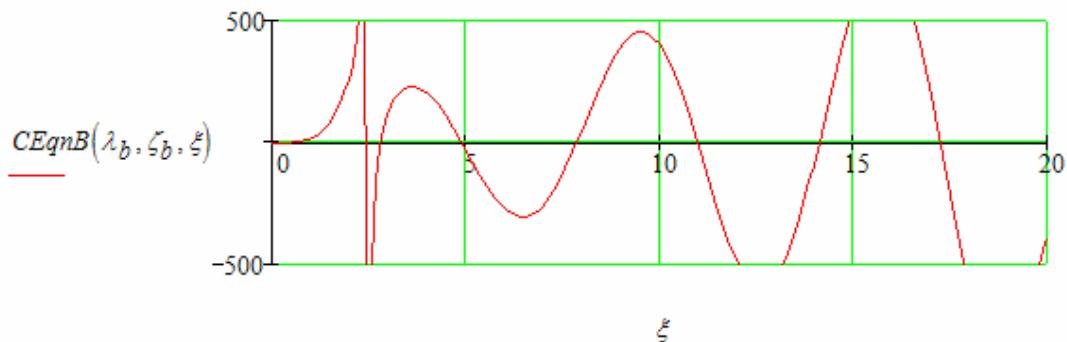
Tip Weight Properties (Calculated)

$$\lambda_b := \frac{m_{tip}}{m \cdot l} \quad \lambda_b = 23.817$$

$$\zeta_b := \frac{I_{zz}}{m \cdot l^3} \quad \zeta_b = 0.052$$

$$\zeta_t := \frac{I_{xx}}{\rho_{Al} \cdot I_p \cdot l} \quad \zeta_t = 1.675 \times 10^3$$

$$\xi := 0, 0.1..20$$



$$x := 1$$

Given

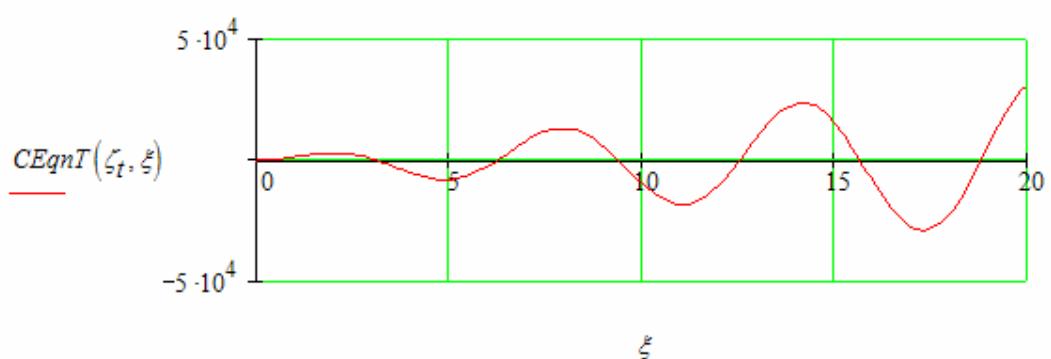
$$CEqnB(\lambda_b, \zeta_b, x) = 0$$

$$\alpha l := Find(x)$$

$$\alpha l = 0.59355$$

$$\omega_w := \alpha l^2 \cdot \sqrt{\frac{EI_w}{m \cdot l^4}} \quad \omega_w = 1.0072 \text{ Hz}\alpha$$

$$\omega_v := \alpha l^2 \cdot \sqrt{\frac{EI_v}{m \cdot l^4}} \quad \omega_v = 4.0287 \text{ Hz}\alpha$$



$$x' := 1$$

Given

$$CEqnT(\zeta_t, x') = 0$$

$$\beta l := Find(x')$$

$$\beta l = 0.02442$$

$$\omega_t := \beta l \cdot \sqrt{\frac{GJ}{\rho_{Al} \cdot I_p \cdot l^2}} \quad \omega_t = 23.6944 \text{ Hz}$$

## Appendix C: Nastran Input Files

```

ECHO = SORT
DISPLACEMENT(PRINT) = ALL
METHOD = 1
SPC = 1
BEGIN BULK
$ ****
$ Written by : Femap with NX Nastran
$ Version : 9.10
$ Translator : NX Nastran
$ From Model : D:\DOCUMENTACION\dmarquez\Desktop\FEMAPM~1\beam.mod
$ Date : Fri Aug 25 14:05:36 2006
$ ****
$ 
PARAM,POST,-1
PARAM,OGEOM,NO
PARAM,AUTOSPC,YES
PARAM,MAXRATIO,1.E+8
PARAM,GRDPNT,0
PARAM,COUPMASS,1
EIGRL 1 10 0 MASS
CORD2C 1 0 0. 0. 0. 0. 1.+FEMAPC1
+FEMAPC1 1. 0. 1.
CORD2S 2 0 0. 0. 0. 0. 1.+FEMAPC2
+FEMAPC2 1. 0. 1.
$ Femap with NX Nastran Constraint Set 1 : bc
SPC 1 1 123456 0.
$ Femap with NX Nastran Property 1 : untitled
PBEAM 1 1 0.06250.001302 8.E-5 0.0.001383 0.+PR 1
+PR 1 0. 0. 0. 0. 0. 0.+PA 1
+PA 1 YESA 1.
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GRID 5 0 20. 0. 0. 0.
GRID 6 0 2.5 0. 0. 0.
GRID 7 0 7.5 0. 0. 0.
GRID 8 0 12.5 0. 0. 0.
GRID 9 0 17.5 0. 0. 0.
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GRID 12 0 0.075 0. 0. 0.
GRID 13 0 0.1 0. 0. 0.
GRID 14 0 0.125 0. 0. 0.
GRID 15 0 0.15 0. 0. 0.
GRID 16 0 0.175 0. 0. 0.
GRID 17 0 0.2 0. 0. 0.
GRID 18 0 0.225 0. 0. 0.
GRID 19 0 0.25 0. 0. 0.
GRID 20 0 0.275 0. 0. 0.
GRID 21 0 0.3 0. 0. 0.
GRID 22 0 0.325 0. 0. 0.
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<b>1. REPORT DATE (DD-MM-YYYY)</b> 08-09-2006		<b>2. REPORT TYPE</b> Master's Thesis		<b>3. DATES COVERED (From – To)</b> Aug 2005 – Sep 2006
<b>4. TITLE AND SUBTITLE</b> NATURAL FREQUENCIES AND MODE SHAPES OF A NONLINEAR, UNIFORM CANTILEVERED BEAM		<b>5a. CONTRACT NUMBER</b> <b>5b. GRANT NUMBER</b> <b>5c. PROGRAM ELEMENT NUMBER</b>		
<b>6. AUTHOR(S)</b> Marquez-Chisolm, Daniel J., Lieutenant, USAF		<b>5d. PROJECT NUMBER</b> <b>5e. TASK NUMBER</b> <b>5f. WORK UNIT NUMBER</b>		
<b>7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(S)</b> Air Force Institute of Technology Graduate School of Engineering and Management (AFIT/EN) 2950 Hobson Way WPAFB OH 45433-7765			<b>8. PERFORMING ORGANIZATION REPORT NUMBER</b> AFIT/GAE/ENY/06-S06	
<b>9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)</b> Dr. Robert A. Ormiston U.S. Army Aeroflightdynamics Directorate NASA Ames Research Center, MS 215-1 Moffett Field, CA 94035-1000      Phone: 650-604-5000			<b>10. SPONSOR/MONITOR'S ACRONYM(S)</b> <b>11. SPONSOR/MONITOR'S REPORT NUMBER(S)</b>	
<b>12. DISTRIBUTION/AVAILABILITY STATEMENT</b> APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.				
<b>13. SUPPLEMENTARY NOTES</b>				
<p><b>14. ABSTRACT</b> A series of experiments in 1975, referred to as the Princeton Beam Experiments, were performed to measure natural frequencies and create a nonlinear elastic deformation model to improve helicopter main beam designs. These experiments used a homogeneous 7075 aluminum beam and have been referenced as a baseline for the past thirty years to validate computer models and theories in an effort to build beams capable of withstanding aero elastic, static, and dynamic loading.</p> <p>The purpose of this study is to measure the dynamic nonlinear bending and torsion response of a cantilever beam. The natural frequencies are measured in the flatwise and edgewise directions at different static root pitch angles with varying levels of tip weights. The measured natural frequencies were compared to linear equations of motion, a nonlinear computer model and previous experiments to verify the nonlinear effects of root pitch angle and tip weights.</p> <p>The experiment produced promising results in that the first mode in the edgewise and flatwise directions were within the error bands of the Princeton Beam Experiment and that the linear model matched the experimental case with no tip weights. Further experimentation is needed in order to properly calculate the edgewise frequencies and estimate mode shapes.</p>				
<p><b>15. SUBJECT TERMS</b> Cantilever Beam, Modal Analysis, Natural Frequency, Tip Load, Nonlinear Frequency Response, Root Pitch Angle</p>				
<b>16. SECURITY CLASSIFICATION OF:</b> REPORT U		<b>17. LIMITATION OF ABSTRACT</b> ABSTRACT U	<b>18. NUMBER OF PAGES</b> c. THIS PAGE UU 207	<b>19a. NAME OF RESPONSIBLE PERSON</b> Donald L. Kunz <b>19b. TELEPHONE NUMBER (Include area code)</b> (937) 785-3636, ext 4320; e-mail: Donald.Kunz@afit.edu

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